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Manager

Spotted Owl Management Plan



Forest Service USDA
Pacific Northwest Region
Gifford Pinchot National Forest

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INTERIM SPOTTED OWL MANAGEMENT PLAN
FOR THE GIFFORD PINCHOT NATIONAL FOREST

Prepared By

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GIFFORD PINCHOT NATIONAL FOREST
VANCOUVER, WASHINGTON

1980

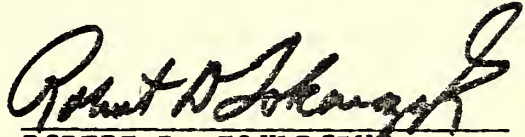
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The Interim Spotted Owl Management Plan for the Gifford Pinchot National Forest was developed under the direction of the Forest Management Team. It will be in effect until the Forest Plan is finalized or until the Regional Forester provides different direction. The Gifford Pinchot National Forest prepared the plan out of concern that suitable habitat for the spotted owl might not be available if we delayed taking action.


ROBERT D. TOKARCZYK
Forest Supervisor

December 24, 1980

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INTRODUCTION

Spotted owls (*Strix occidentalis*) are large dark-brown birds, having rounded heads and plumage that is spotted above and horizontally barred below. Adults average 16-19 inches long with a wingspan of 42 inches. Spotted owls have dark eyes, which is unusual, as other species have yellow eyes.

In Washington, spotted owls are limited to coniferous forests generally below 4,000 feet on the west side of the Cascades. Spotted owls require old-growth forest habitat, characterized by dense, structurally diverse stands with high incidences of snags, broken-topped and dying trees. Overstory trees in occupied habitat often average 33 inches diameter breast height on the Gifford Pinchot National Forest. Usually these stands are 200 to 600 years old.

Intensive timber management on the Gifford Pinchot National Forest is rapidly converting old-growth stands into younger even-aged stands. Spotted owl populations in Oregon declined as a result of converting old-growth Douglas fir and western hemlock stands into young, even-aged stands (Forsman, 1976).

The spotted owl is currently listed as a sensitive species in Region 6. Spotted owls are also being proposed by the Washington Department of Game as a threatened species. Several agencies believe the spotted owl could eventually be classified as a Federally listed threatened or endangered species.

The Forest Service has a policy (FSM Chapter 2670.3) that it will "protect habitats of listed and sensitive species from adverse modification or destruction and protect individual organisms from harm". Old-growth stands are essential for the spotted owl for feeding, roosting and successful reproduction. The objective of the Interim Gifford Pinchot National Forest Spotted Owl Management Plan is to maintain at least minimum old-growth habitat to ensure perpetuation of spotted owls. It must be stressed that this plan is an interim measure that will be re-evaluated during the Regional and Forest planning processes. The Interim Gifford Pinchot Spotted Owl Plan was developed under the direction of the Forest Management Team (Appendix 3).

HABITAT USE

Old-growth stands provide habitat for three essential biological activities including roosting, feeding and nesting.

1. Roosting Habitat Stand structure associated with old-growth is important for body temperature regulation. On hot days,

small pockets of regeneration within old-growth stands are used as roost sites due to cooler temperatures near the forest floor. During wet and cold weather, large overstory trees are used to increase direct exposure to solar radiation (Forsman, 1980). Temperatures at lower canopy levels are generally cooler during these times.

2. Foraging Habitat

Flying squirrels (*Glaucomys sabrinus*), western red-backed voles (*Clethrionomys occidentalis*) and red tree voles (*Phenacomys longicaudus*) comprise a large portion of the spotted owl's diet. All are species associated with old-growth stands. The absence of medium-sized mammals in old-growth habitat would force spotted owls into competition with great horned owls which utilize similar sized mammals associated with open or young forest stands. Great horned owls may also prey directly upon spotted owls (Forsman, 1980).

3. Nesting Habitat

Spotted owls nest in tree cavities, on branch platforms such as those formed by mistletoe and in large, broken-topped trees with secondary crowns covering the broken top. Nests usually occur in the mid-story portion of the forest canopy. Spotted owls are relatively large birds and require large snags to provide adequate sized cavities. Sufficient diameter snags are typically found only in old-growth stands.

DEVELOPMENT OF SPOTTED OWL MANAGEMENT UNITS

An initial survey of potential spotted owl habitat on the Forest was conducted between June 14 and August 25, 1978 by Sonny Paz and John Sefcik. Thirty stands were sampled based on descriptions by Eric Forsman (1978) to determine suitability as habitat. Dennis Mengel and Sonny Paz surveyed between April 11 and August 20, 1979 to locate spotted owls on the Forest. Sixty-three spotted owl sites were located. Six new sites have been located as of November, 1980.

Using data collected in 1978 and 1979, thirteen potential Spotted Owl Management Areas (SOMA) were delineated according to criteria developed by the Spotted Owl Subcommittee of the

Endangered Species Task Force. Three 1200 acre Spotted Owl Management Units (SOMU) per SOMA were then identified, each with a 300 acre core area. A total of 13 SOMA's and 39 core areas were located.

Between May 19 and September 5, 1980, Dennis Mengel and Sonny Paz surveyed each core area not within the Mount St. Helens restricted zone, to determine its suitability for spotted owl habitat. Only the core areas were surveyed as they were considered to be the critical portion of each SOMU. Parameters recorded included (Appendix 1):

1. Elevation
2. Slope
3. Aspect
4. Distance to water
5. Stand Class
6. Overstory tree data
 - a. Density/acre
 - b. Average height
 - c. Average Diameter Breast Height
 - d. Species
 - e. Average age
 - f. Percent crown closure
7. Number of live culls/acre
8. Standing snag data
 - a. Density/acre
 - b. Average height
 - c. Average Diameter Breast Height
9. Number of downed logs/acre

Areas not appropriate were replaced by alternative areas that did meet the criteria. Three such areas were determined to be unsuitable and had to be relocated. All changes were coordinated with the respective District personnel.

EFFECTS OF MOUNT ST. HELENS'S ERUPTION

The eruption of Mount St. Helens in May 1980 severely affected the development of this plan. Original SOMA #7 was completely destroyed and SOMA's #6 and #8 were partially destroyed. Of particular significance was the destruction of the largest continuous area of low elevation old-growth habitat on the Forest. Old-growth habitat in the Spirit Lake basin and the Green River drainage was completely destroyed. Habitat in this area was considered crucial to the viability of the pre-eruption Gifford Pinchot National Forest SOMA distribution. Only minimum numbers of SOMU's were identified elsewhere on the Forest because of the large area of old-growth habitat available in the Spirit Lake basin and Green River drainage. Post-eruption analysis indicated a need to reassess the remaining spotted owl habitat on the Forest.

Restrictions imposed on Forest Service personnel near Mount St. Helens severely impeded sampling of many Spotted Owl Management Units. SOMA's #6, #7 and #8 are currently located in restricted access zones. SOMA #12 is located in the Goat Rocks Wilderness Area which has been closed during most of the field season.

SPOTTED OWL MANAGEMENT GUIDELINES

A Region 6 plan outlining the direction for spotted owl management is currently being prepared. An interim interagency plan for Oregon has been completed. The Oregon plan requires a minimum of 1200 contiguous acres be managed for each pair of spotted owls.

Proposed Regional guidelines would require the following minimum habitat to be managed for each pair:

1. Three-hundred acres of contiguous old-growth "core habitat".
2. Three 80 acre satellite old-growth areas.
3. Two-hundred ten acres of 60 year or older stands.
4. The remaining 450 acres can be stands older or younger than 60 years of age.

Timber management objectives for Spotted Owl Management Units should be designed to maintain old-growth habitat in the core and satellite areas. A management strategy should be developed for currently occupied habitat not included in SOMU's. Before modifying suitable occupied habitat outside of SOMU's, full consideration should be given to meeting current Regional and Forest allocation requirements for verified Spotted Owl Management Units.



Fig. 1 An adult spotted owl located on the Gifford Pinchot National Forest. The spotted owl survey crew located this owl during the 1979 survey. Note the dark eyes, spotted head and horizontal barring on the breast and abdomen.



Fig. 2 Spotted owl crew using an increment borer to determine the age of a Douglas fir in a stand plot. Tree age and other variables were collected during the 1978 survey in an attempt to quantify spotted owl habitat. Tree age was also measured during the 1980 survey to determine stand age of proposed SOMU core areas.



Fig. 3 This spotted owl fledgling, observed in late June, has started to fly short distances. It is still dependent on the adult owls for food. This owlet is approximately 40 to 50 days old. The winter plumage is starting to appear on the wings and tail. After full feather development, this owlet will be indistinguishable from an adult owl.



Fig. 4 This is an example of spotted owl habitat on the Gifford Pinchot National Forest. Douglas fir and western hemlock are the dominant overstory species. The stands are multi-layered and dense. Large snags are an important component of spotted owl habitat.

It is recommended that thorough field surveys for spotted owls be performed before old-growth stands under 4,000 ft. elevation are modified by timber harvesting.

SOMA'S

Spotted Owl Management Areas (SOMA) are areas in which 3 to 6 pairs of owls will be managed. The primary concern for locating SOMA's is the presence of a population of spotted owls. Region 6 guidelines state that SOMA's are to be spaced 8 to 12 miles apart. Gifford Pinchot National Forest SOMA's were designated to meet this criterion.

The critical areas pertaining to timber management are the 1200 acre SOMU's. Four specific habitat components must be managed within each SOMU. They include:

1. Three-hundred acres of contiguous old-growth "core habitat".
2. Three 80 acre satellite old-growth areas.
3. Two-hundred ten acres of 60 year or older stands.
4. The remaining 450 acres can be stands older or younger than 60 years of age.

MANAGEMENT OF CORE AREA

The primary functions of the core area are nesting and roosting. Core areas must be a minimum of 300 acres in size and be a minimum of 200 years of age. Stratified stand structures with closed canopies are necessary. Large snags or broken-top trees suitable as nest sites must be available for reproduction. At this time, it is recommended there be no silvicultural disturbances in the core area.

MANAGEMENT OF FEEDING AND PERCHING HABITAT

Forsman (1978,1980) has shown spotted owls prefer to roost and feed in dense old-growth forest habitat. Second-growth or open areas receive significantly less use, and may actually be avoided. In addition to the 300 acre core habitat, an additional 240 acres of old-growth should be managed. Three 80 acre or larger old-growth areas are recommended. These should have the same habitat characteristics described for the core area. Even distribution of the 80 acre old-growth areas is recommended within the 1200 acre Spotted Owl Management Unit. Ideally, silvicultural prescriptions should allow for forested travel routes between feeding and roosting habitat and the core

area. Any cutting within the core area or the feeding and roosting habitat should recognize the importance of maintaining old-growth characteristics within the stand. Because the long term impacts of partial cutting in old-growth are not well understood, it is recommended that forest managers consult a wildlife biologist knowledgeable about spotted owl habitat prior to timber harvesting where the spotted owl is a management concern.

Forsman (1980) has noted that spotted owls will not use thinned old-growth stands for foraging if unthinned stands are available.

MANAGEMENT OF THE REMAINING SPOTTED OWL MANAGEMENT UNIT

As described earlier, 540 acres of the Spotted Owl Management Unit should be managed as old-growth habitat. This includes the 300 acre core area and the three 80 acre feeding and roosting habitat components. Management of the remaining 660 acres of habitat can have a profound influence on whether or not spotted owls successfully use and reproduce in the areas managed for their benefit.

It is recommended that at least 210 acres be managed in stands with trees 60 years of age, or older. This habitat is used by the spotted owl primarily for travel corridors between the old-growth core areas and the feeding and roosting habitats.

The remaining 450 acres of spotted owl habitat can be managed as either stands 60 years or younger in age, or stands older than 60 years.

RECOMMENDED SPOTTED OWL MONITORING PROGRAM

This Interim Spotted Owl Management Plan identifies 45 SOMU's on the Gifford Pinchot National Forest. Each SOMU was delineated based on the best area available considering all forest resources. It is recommended that a systematic monitoring program be initiated to evaluate spotted owls and their habitat in the following situations:

1. HABITAT INSIDE OF SPOTTED OWL MANAGEMENT UNITS

- A. In Spotted Owl Management Units (SOMU's) where the occurrence of spotted owls has been verified, it is recommended that core areas be inventoried every 3-5 years if there are no habitat modifications. Inventorying should consist of calling at night each

month from April through August until spotted owls are located. Calling during July and August is recommended if fledgling information is desired.

- B. In SOMU's where the occurrence of spotted owls has been verified and where any habitat modifications are planned, it is recommended that the type of modification be documented and the core area be inventoried during the two consecutive years following the modification.
- C. In SOMU's where habitat has been evaluated to be suitable, but where spotted owls have not been verified, it is recommended that the core areas be inventoried each year for up to five years. If spotted owls cannot be verified within five years, these areas should be replaced with habitat elsewhere on the Forest that is known to have spotted owls.
- D. In SOMU's where habitat has not been evaluated, measures should be taken to gather this information as soon as safety factors allow. Habitat should be measured using the form provided in appendix 1.

After these are determined to have suitable habitat, spotted owls should be verified using the inventory methodology discussed previously.

2. OLD GROWTH HABITAT OUTSIDE OF SPOTTED OWL MANAGEMENT UNITS

- A. It is recommended that old growth forests outside of SOMU's be inventoried for spotted owls prior to timber sales. Inventorying should consist of calling during the night at least once a month (April-August) for two months. Calling should be done during good weather. If owls are not found the stand can be harvested without additional concern. However, if spotted owls are verified, consideration should be given to protect their habitat in lieu of SOMU's where spotted owls cannot be verified, or to provide for additional pairs as per current Regional direction or through the Forest planning process.

LITERATURE CITED

FORSMAN, E. D. 1980. Habitat utilization by spotted owls in the west-central Cascades of Oregon. Ph.D Thesis. Oregon State University, Corvallis. 95 pp.

_____, 1976. A preliminary investigation of the spotted owl in Oregon. M.S. Thesis. Oregon State University, Corvallis. 127 pp.

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 1-1 TRI Comp: 8501District: Wind River Legal Location: T4N., R.8E., S18Descriptive Location of Plots: N. of Rd. 6800013Elevation: 2410' Slope: 55% Aspect: NE, S, SW, NWDistance to Water: 1/2 mi. to mouse creekStand Class: D-4 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 35 trees /Acre Height: 122' DBH: 24"Species: DF Age: 133 % Crown Closure: 91No. of Live Culls: 1 cull /AcreStanding Snags:Density: 7 snags /Acre Average Height: 23' /AcreAverage DBH: 11" /Acre

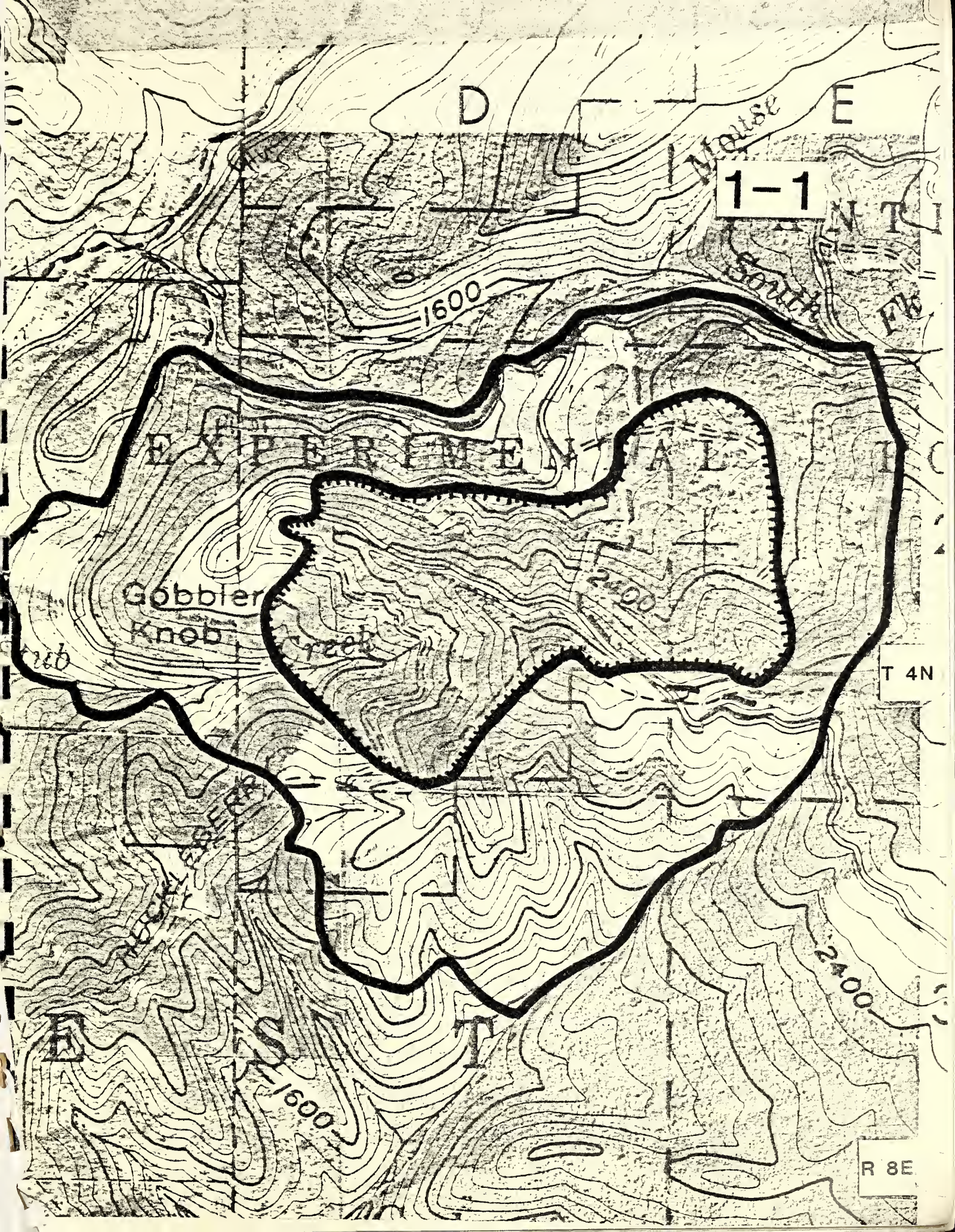
DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		1	1	
10-19	2	1	1	
>20			1	

No. of Downed Snags: 11 /AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>X</u>	Habitat: _____	Habitat: _____

Narrative:

The plots lacked suitable snags, although large snags could be seen outside the plots. The general area was affected by a fire several decades ago. The stand lacks structure. The understory is open. Potential nest sites might be lacking in the core area. A spotted owl was sighted in the 1978 survey (site #4).



D

E

1-1

1600

Gobbler
Knob

2400

T 4N

2400

3000

R 8E

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 1-2 TRI Comp: 8502District: Wind RiverLegal Location: T4N., R.8E., S30Descriptive Location of Plots: Trail # 149-A, Weigle HillElevation: 2030' Slope: 49% Aspect: W, NW, SDistance to Water: 1/2 mi. NW to Cedar CreekStand Class: D-3-4-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 28 trees /Acre Height: 121' DBH: 24"Species: DF Age: 180 % Crown Closure: 98No. of Live Culls: 0 /AcreStanding Snags:Density: 3 snags /Acre Average Height: 17' /AcreAverage DBH: 20" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1		
>20	1	1		

No. of Downed Snags: 8 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: _____

Habitat: _____

Habitat: xNarrative:

We found this stand to be unsuitable spotted owl habitat. This is an old burn. All trees in the stand are of uniform height and Dbh. There is no stratified stand structure. There are very few snags of nesting size. Live culls are also scarce. A portion of the core is dry meadows and scrub oak stands. There is very little regeneration. Some areas average 70 years or less. Being relocated.

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 1-2 TRI Comp: 8504District: Wind River Legal Location: T.3N., R.8E., S9Descriptive Location of Plots: S. of road 428Elevation: 1662' Slope: 45% Aspect: all pointsDistance to Water: 1/3 mi. S. of un-named creek.Stand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 20 trees/Acre Height: 127' DBH: 32"Species: DF Age: 292 % Crown Closure: 99No. of Live Culls: 2 culls/AcreStanding Snags:Density: 9 snags/Acre Average Height: 59'/AcreAverage DBH: 22"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		2		
10-19	1	2	3	
>20				1

No. of Downed Snags: 5/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:

This area is adequate habitat, but nesting potential is limited. The core
is bordered by private land on two sides. Snags are not large. Clearcuts
are north, south and east of core. Not much recreation available.

R 81/2E

1-2

B-807

1600

1200

BRUSH

CR

1200

BRUSH

1200

T 3N

NATIONAL

16

15

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 1-3 TRI Comp: 8502District: Wind River Legal Location: T.4N., R8E., S28., 33Descriptive Location of Plots: NE from end of Bear Creek RoadElevation: 990' Slope: 67% Aspect: E, ESEDistance to Water: 200 yds to 1/4 mi. to Bear CreekStand Class: D-4, D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 18 trees /Acre Height: 150' DBH: 31"Species: DF Age: 230 % Crown Closure: 99No. of Live Culls: 1 cull /AcreStanding Snags:Density: 6 snags /Acre Average Height: 39' /AcreAverage DBH: 16" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		3	2	
>20		1		

No. of Downed Snags: 8 /AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:

This is adequate habitat. Although some snags of nest size are available,
there are not many. This is in the Bear Creek drainage which is Carson's
watershed. Trespassing is not allowed. This combined with the extremely
rugged terrain should keep human interference to a minimum.

1-3

Creek

2000

2773

REF

200

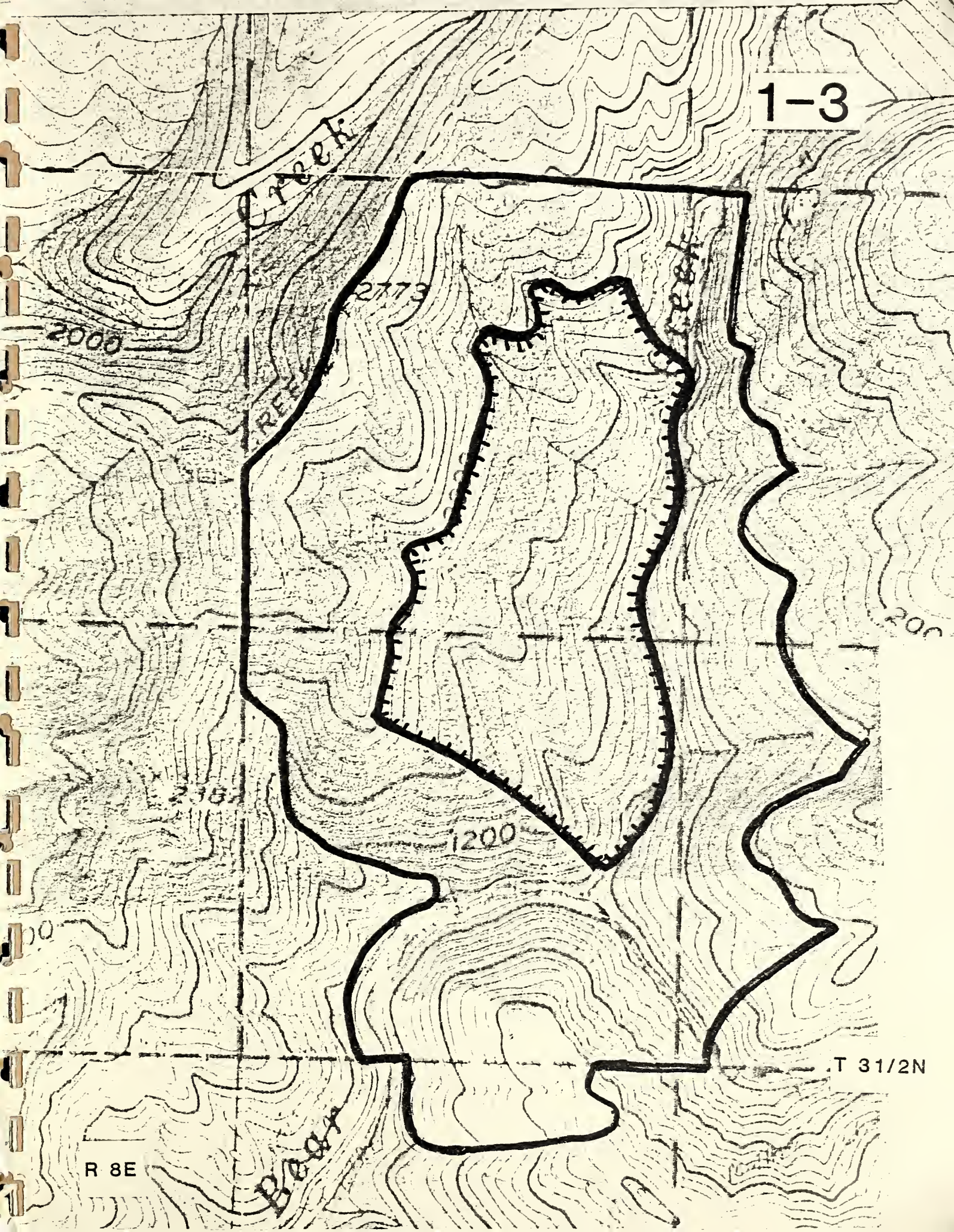
235

1200

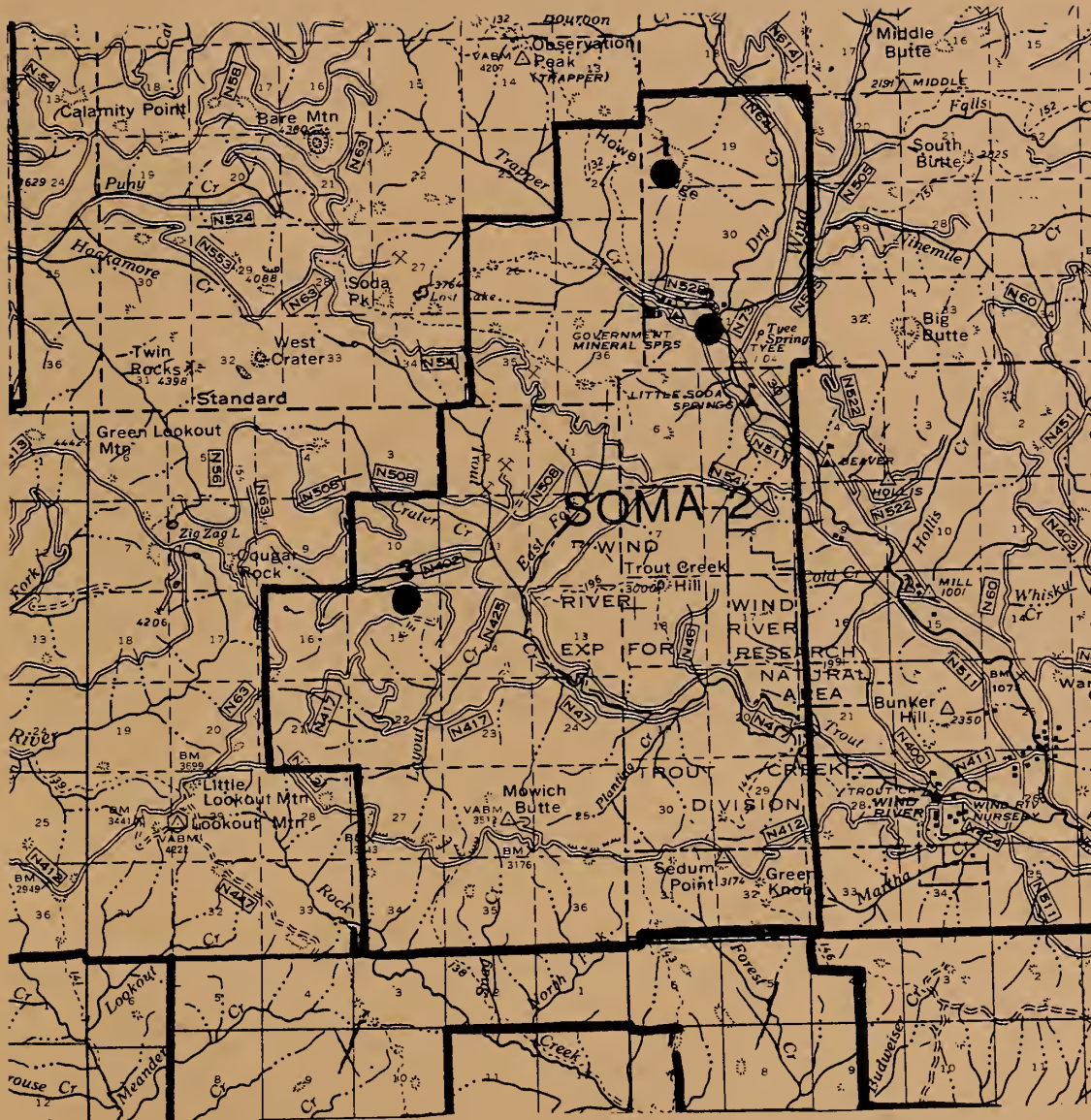
T 31/2N

R 8E

Box



SOMA 2



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 2-1 TRI Comp: 8204District: Wind River Legal Location: T5N, R7E, S30Descriptive Location of Plots: N of road 8cElevation: 1405' Slope: 34% Aspect: SDistance to Water: 1/4 to 1/2 mi. S to Trapper CreekStand Class: D-4-5, FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 17 trees/Acre Height: 126' DBH: 30"Species: DF, WH, WRC Age: 272 % Crown Closure: 98No. of Live Culls: 1 cull/AcreStanding Snags:Density: 16 snags/Acre Average Height: 70'/AcreAverage DBH: 38"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1	1	
>20	2	4	5	3

No. of Downed Snags: 20/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:This core meets the guidelines. There is high recreational use here.Trapper Creek Trail is on the W and S sides of the core. Cabins arelocated S of the core. Part of this unit is a burn, so some areas arenot old growth, but old growth characteristics are retained. An owlwas located close to the west side of the core by district personnel in1978 (site #110).

T 5N

2-1

2800

3200

1600

2000

Trail

1600

Creek

Government
Mineral Springs

Government
Mineral Springs

Trapper

Guard Sta

Cr

Forest
Camp

R 61/2E

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 2-2 TRI Comp: 8204District: Wind RiverLegal Location: T4N., R7E., S 31Descriptive Location of Plots: S of road 8cElevation: 1345'Slope: 58%Aspect: NEDistance to Water: 1/4 to 1/2 mi. N to Trapper CreekStand Class: D-5, FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 14 Trees/Acre Height: 139' DBH: 32"Species: DF, WH, WRC Age: 344 % Crown Closure: 99No. of Live Culls: 1 cull/AcreStanding Snags:Density: 10 snags/Acre Average Height: 47'/AcreAverage DBH: 17"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		6	1	1
>20			1	1

No. of Downed Snags: 20/AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: x

Habitat: _____

Habitat: _____

Narrative:

This is adequate habitat. Trees are large. Government Mineral Springs is
the main recreational use of this area. The stand is well-layered with
a closed canopy. Steep slopes should minimize human interference

R 61/2E

2-2

Creek

Government
Mineral Springs

Government
Mineral Springs

Guard Sta

Cr

Forest
Camp

80

T 41/2N

TRAIL

3071

2800

1200

Wind

Little Soda Springs

Forest Camp

PEAKS

1725

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 2-3 TRI Comp: 8401District: Wind River Legal Location: T4N., R6E., S 14, 15Descriptive Location of Plots: W of road 3300000Elevation: 2330' Slope: 38% Aspect: S, SEDistance to Water: 1/3 to 1/4 mi. to Layout CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 24 trees /Acre Height: 153' DBH: 37"Species: DF, WH, GF Age: 200+ % Crown Closure: 98No. of Live Culls: 1 cull /AcreStanding Snags:Density: 13 snags /Acre Average Height: 92' /AcreAverage DBH: 30" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1	2	
>20	1	4	1	4

No. of Downed Snags: 33 /AcreStand Suitability:

Adequate Marginal Sub-marginal
 Habitat: _____ Habitat: x Habitat: _____

Narrative:

Although this core retains some excellent spotted owl habitat, we are calling it marginal due to the disjointed spatial arrangement of the core. A pair of owls with a pair of fledglings was located here in 1979 (Site #25). Sightings were also made in 1978. This is in an area of intensive timber management so care must be taken when managing this unit. An owl was still here in 1980.

R 6E

2-3

Creek

19.

2000

O

F

E

S

2400

0312

2400

Creek

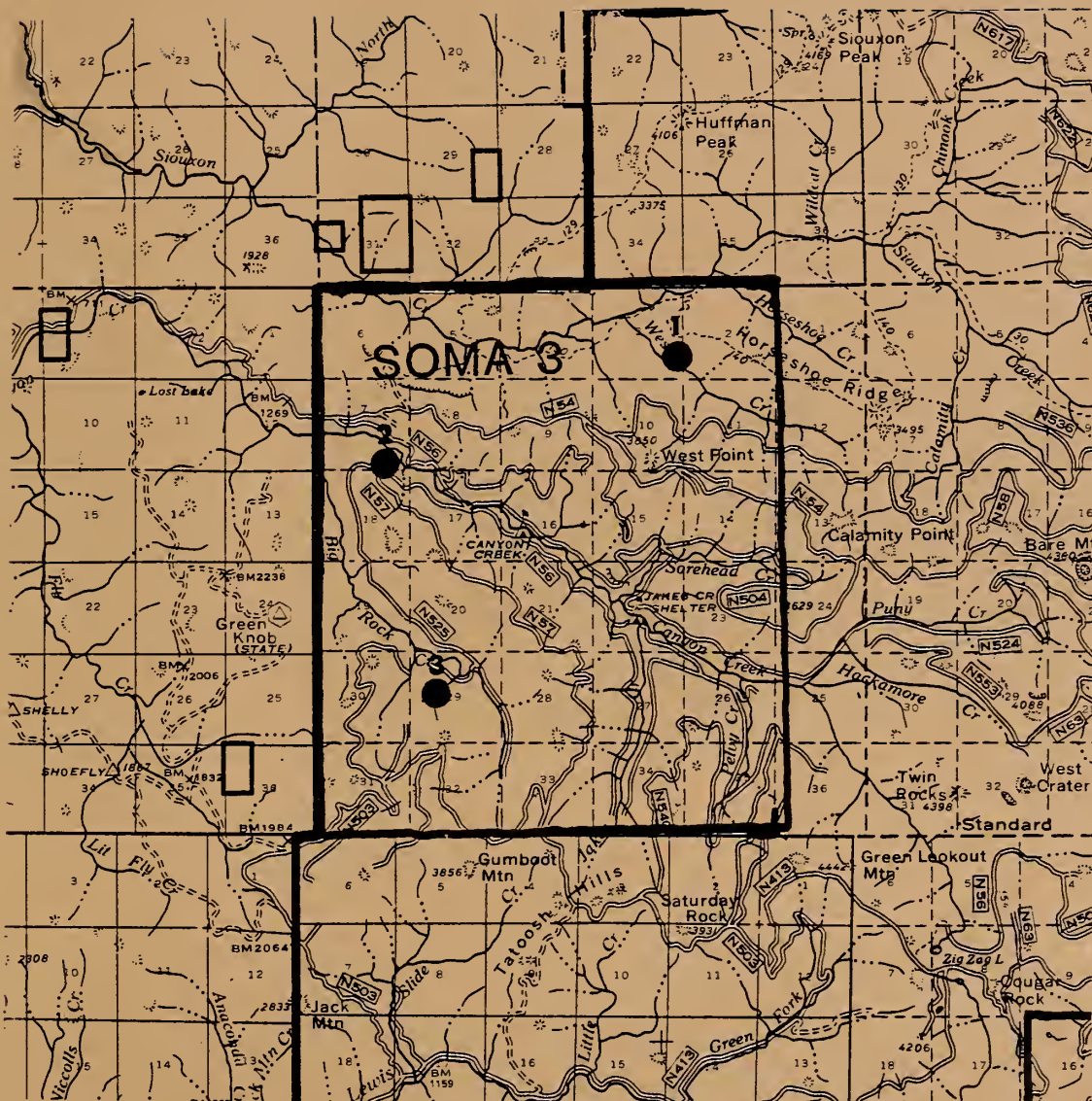
T 4N

1936

Lagoon

2400

SOMA 3



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 3-2 TRI Comp: 8706District: Wind River Legal Location: T5N., R5E., S 18Descriptive Location of Plots: E. of road 525Elevation: 1825' Slope: 17% Aspect: SE to WDistance to Water: 1/2 mi. W to Big Rock CreekStand Class: D-5, FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 20 trees/Acre Height: 161' DBH: 42"Species: DF, WH, WRC Age: 349 % Crown Closure: 99%No. of Live Culls: 2 culls/AcreStanding Snags:Density: 14 snags/Acre Average Height: 59'/AcreAverage DBH: 34"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19				
>20	1	7	3	3

No. of Downed Snags: 27/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>X</u>	Habitat: _____	Habitat: _____

Narrative:

This is excellent habitat. There are many large trees and snags. A new
spotted owl was called into this core during our 1980 sample (Site #129)
Clearcuts abound in this area. Recreational use is marginal. The canopy
is well-layered but the understory is open.



1600

R 41/2E

3-2

2000

2400

1200

1600

1557

Canyon

1600

T 5N

2000

Rock

2000

2400

CUTTER

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 3-3 TRI Comp: 8706District: Wind River Legal Location: T5N, R5E, S29Descriptive Location of Plots: S of road 525Elevation: 1776' Slope: 50% Aspect: NW, NE, SDistance to Water: 1/4 mi. to Rock CreekStand Class: D-5, FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 20 trees/Acre Height: 157' DBH: 44"Species: DF, WH Age: >300 % Crown Closure: 97No. of Live Culls: 1 cull/AcreStanding Snags:Density: 14 snags/Acre Average Height: 50'/AcreAverage DBH: 32"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1		
>20	1	4	7	1

No. of Downed Snags: 31/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:

This unit has a multi-layered canopy and large snags. We located an owl in this core in 1979 (Site #50). We had good recall success here last year, but could not elicit a response this year. We did locate a new owl (site #129) 1.5 miles north in SOMU 3-2.

R 51/2E

3-3

Rock

600

2400

2000

2400

3200

335

2400

2800

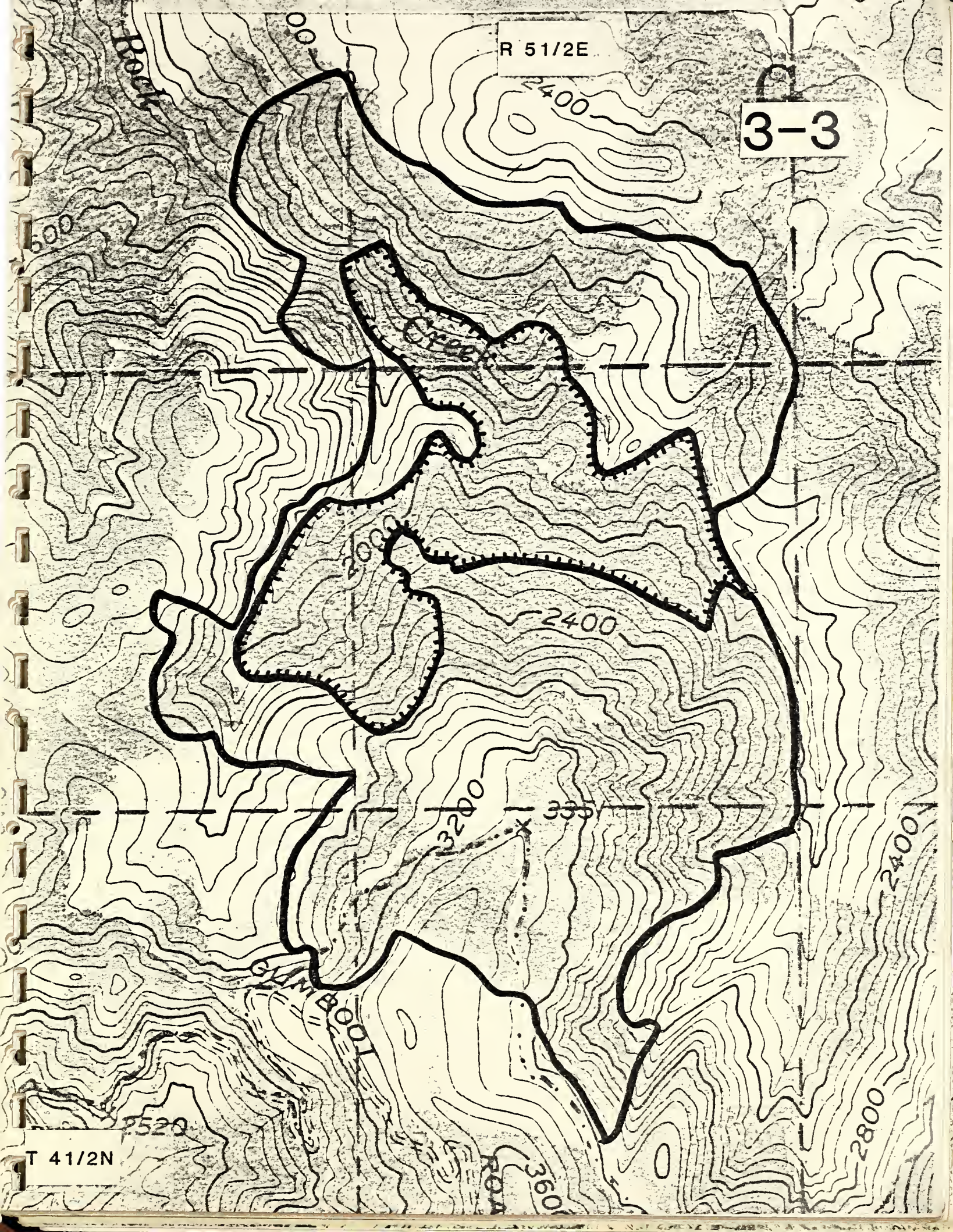
3600

T 41/2N

520

1800

Rock



This topographic map shows the area around Indian Point, Oregon. The Indian Point Nuclear Generating Station is indicated by a large black dot and labeled 'INDIAN POINT'. The map includes various geographical features such as Indian Lake, Little Goose, and several creeks and rivers. The station is located near the Indian Point area, which is marked with a large black dot and labeled 'INDIAN POINT'. The map also shows the location of the Indian Point Nuclear Generating Station, which is marked with a large black dot and labeled 'INDIAN POINT'. The map includes various geographical features such as Indian Lake, Little Goose, and several creeks and rivers. The station is located near the Indian Point area, which is marked with a large black dot and labeled 'INDIAN POINT'.

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 4-1 TRI Comp: 3404District: Mt. AdamsLegal Location: T6N., R9E., S3Descriptive Location of Plots: S of road N60Elevation: 3142'Slope: 6%Aspect: W-NW-SE-SDistance to Water: <1 mi. E to Lost CreekStand Class: D-4Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 32 trees/Acre Height: 116' DBH: 26"

DF, GF, WWP

Species: ES, WH, PPAge: 174% Crown Closure: 65No. of Live Culls: 0/AcreStanding Snags:Density: 26 snags/Acre Average Height: 61'/AcreAverage DBH: 17"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		1	1	
10-19	1		2	3
>20		1	14	

No. of Downed Snags: 48'/AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: _____

Habitat: _____

Habitat: XNarrative:This is unsuitable because; 1) open canopy, 2) not enough nesting habitat,3) lack of understory trees; 4) openings in stand. This unit has beenrelocated near Peterson Prairie.

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 4-1 TRI Comp: 3402District: Mt. Adams Legal Location: T6N, R9E, S 33 & 34Descriptive Location of Plots: N of N60Elevation: 3058' Slope: 5% Aspect: NE-E-SEDistance to Water: 400' to 3/4 mi. to ditch CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 24 trees/Acre Height: 118' DBH: 32"Species: DF, GF Age: 235 % Crown Closure: 92No. of Live Culls: 1 cull/AcreStanding Snags:Density: 9 snags/Acre Average Height: 56'/AcreAverage DBH: 25"/Acre

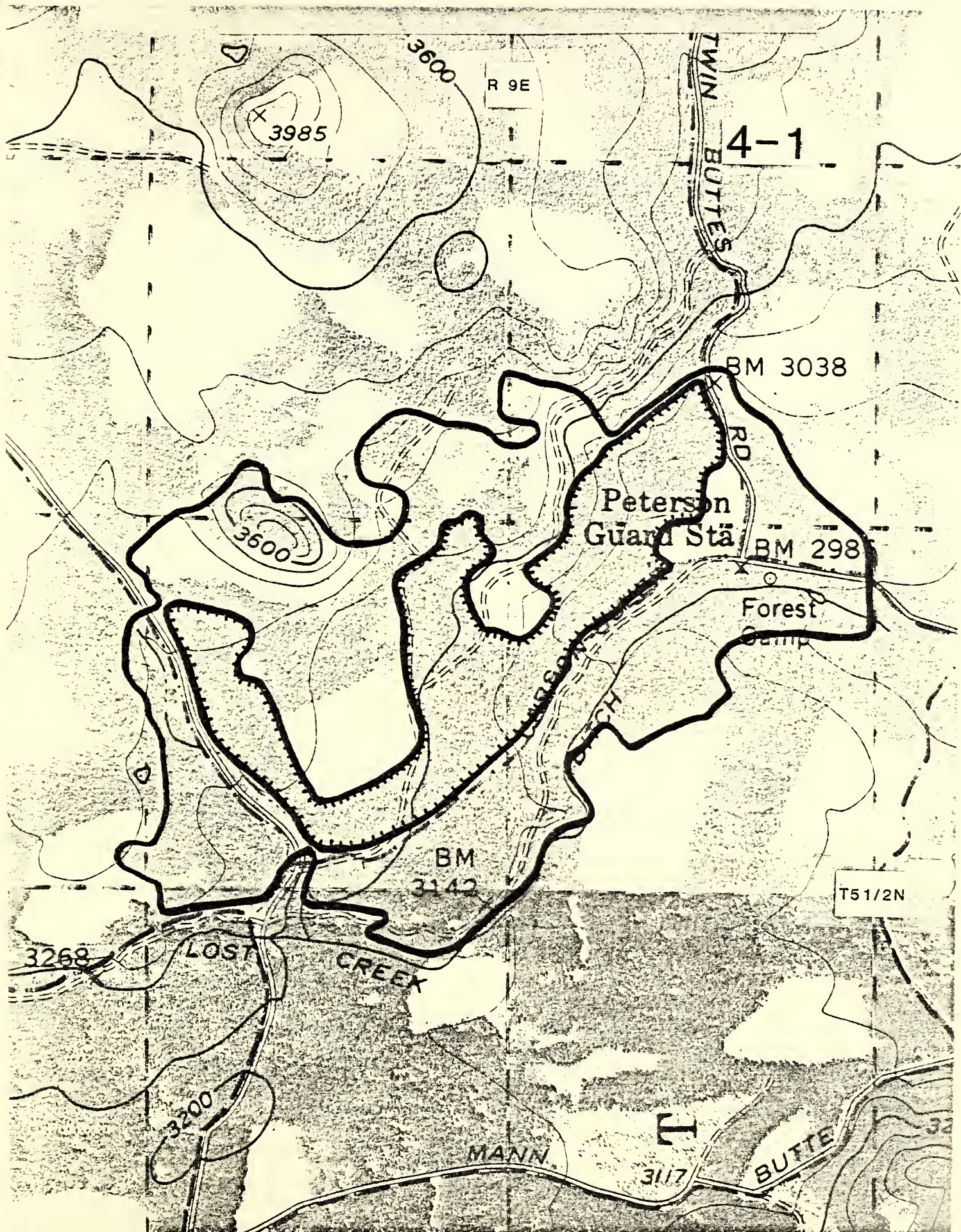
DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		2		
10-19				1
>20		4		2

No. of Downed Snags: 13/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:

Some portions have an open understory, the rest is dense vine maple. Some openings in canopy layer. Overall it is adequate habitat. A few stumps are in the area. An owl was sighted here often in 1979 (site #27). A pair was located nearby. The owl was located here again in July 1980.



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 4-2 TRI Comp: 3403District: Mt. AdamsLegal Location: T6N, R9E, S14Descriptive Location of Plots: E and W of road 67Elevation: 3756' Slope: 33% Aspect: SW-WDistance to Water: 1/8 mi. E of un-named creekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 29 trees/Acre Height: 149' DBH: 33"Species: DF, GF Age: 259 % Crown Closure: 94No. of Live Culls: 0/AcreStanding Snags:Density: 3 snags/Acre Average Height: 59'/AcreAverage DBH: 18"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19			2	
>20		1		

No. of Downed Snags: 21/AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: x

Habitat: _____

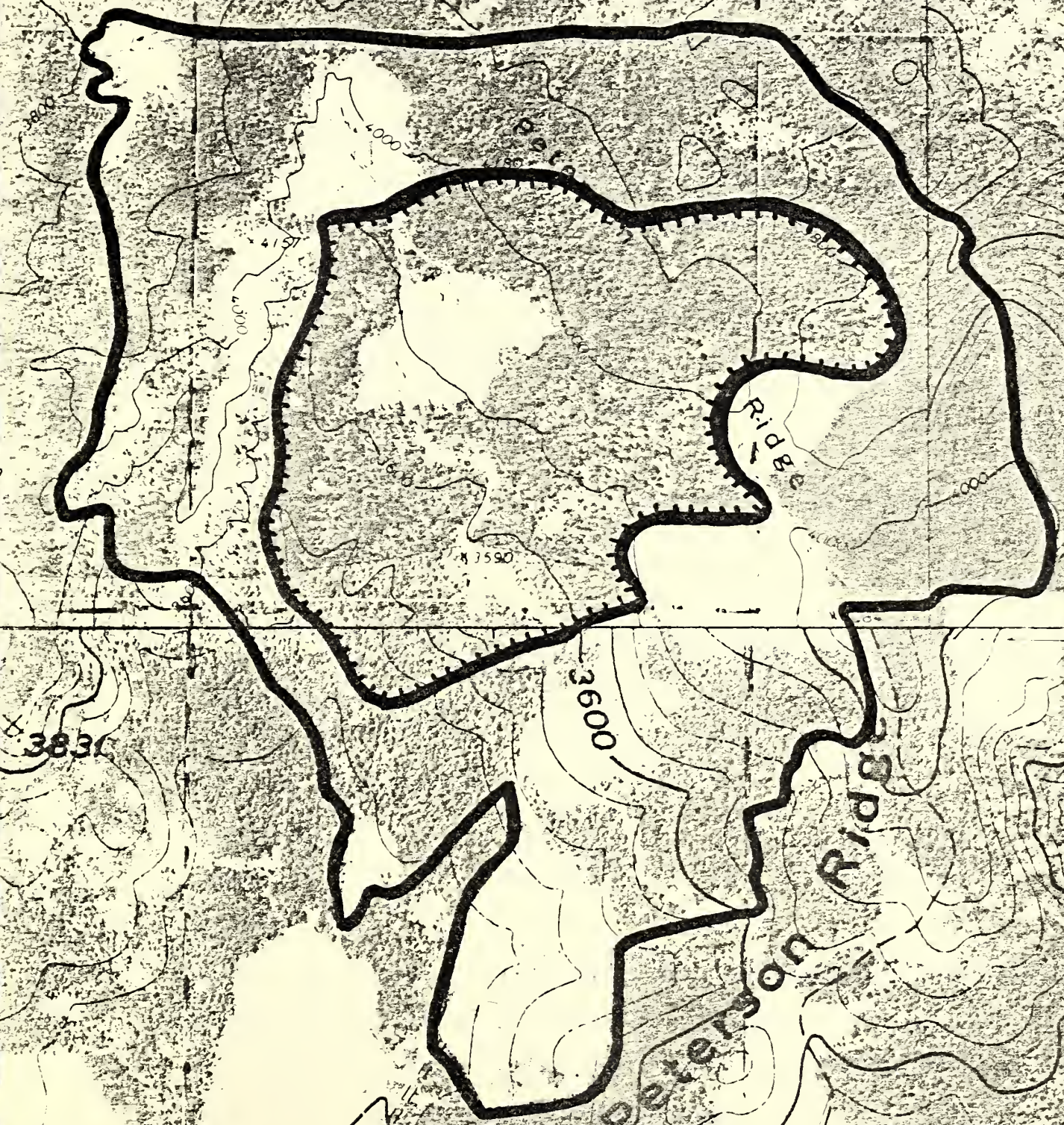
Habitat: _____

Narrative:Large snags in core will offer nesting potential. Water is present. Anowl was located west of core in Peterson sale (site #60). Timber crewreported fledglings. Owls should be able to disperse into core area.Clearcuts are located all around core area.

Deadhorse
Meadow

T 6N

4-2



3831

R 9E

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 4-3 TRI Comp: 3506District: Mt. Adams Legal Location: T6N, R9E, S2, 10, 11Descriptive Location of Plots: Deadhorse MeadowElevation: 3568' Slope: 4% Aspect: NDistance to Water: Wet meadows and no-name creeks in unitStand Class: FM-4 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 41 trees /Acre Height: 131' DBH: 27"

WRC, WWP, TA

Species: ES, GF, WH, DF Age: 102 % Crown Closure: 96No. of Live Culls: 0 /AcreStanding Snags:Density: 21 snags /Acre Average Height: 67' /AcreAverage DBH: 30" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		2	4	
>20	2	5	2	6

No. of Downed Snags: 26 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: x

Habitat: _____

Habitat: _____

Narrative:

There is a high density of large snags here. Stand structure and tree size
are adequate even though trees are young. This area burned once. Site
conditions are excellent for tree growth. An owl was located here in 1979
(site #51). A barred owl (site #56) was also located here. A trail
runs through the unit, but receives light use.

R: 9E

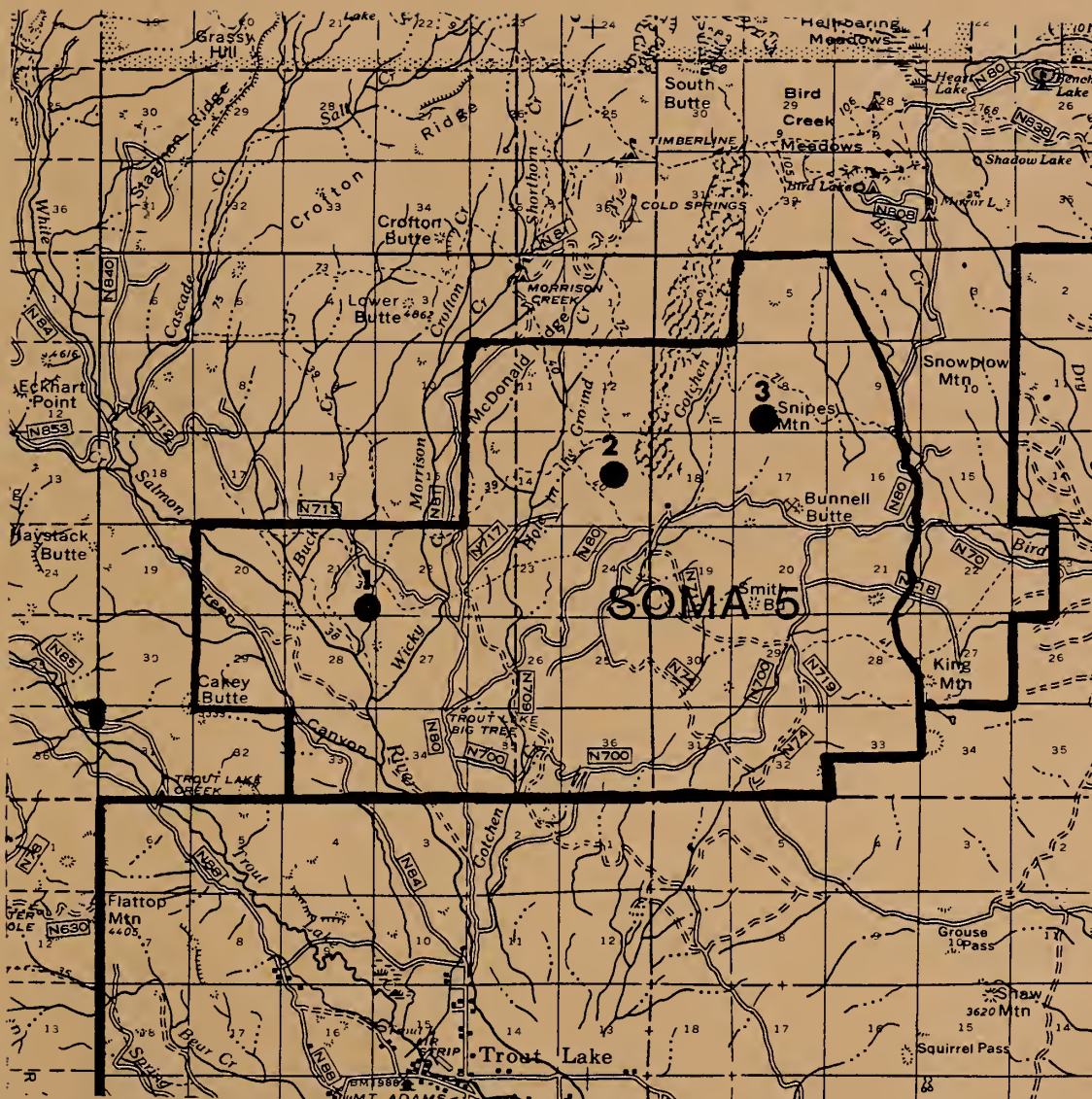
4-3

T 6 1/2N

Peterson

BM 365

SOMA 5



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 5-1 TRI Comp: 3607District: Mt. AdamsLegal Location: T7N, R10E, S21Descriptive Location of Plots: S of road N713AElevation: 2956' Slope: 13% Aspect: SDistance to Water: 1/2 mi. SW to White Salmon RiverStand Class: FM 4 & 5, D-4 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 26 trees /Acre Height: 148' DBH: 33"Species: DF, PP, GF, WL Age: 153 % Crown Closure: 96No. of Live Culls: 1 cull /AcreStanding Snags:Density: 8 snags /Acre Average Height: 43' /AcreAverage DBH: 12" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		2		
10-19	1	1	3	
>20			1	

No. of Downed Snags: 8 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: x

Habitat: _____

Habitat: _____

Narrative:

This core is not completely adequate. The NW portion has and is being
selectively cut. The remainder is adequate. A pair of owls with fledglings
were located in 1979 (site #83). When the bridge on Trapper Creek Trail
is finished, care must be taken to restrict motorcycles on the trail
to prevent disturbances to the nesting birds.

5-1

T 7N

ON ALL FORESTS



R. 10E

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 5-2 TRI Comp: 3608District: Mt. Adams Legal Location: T7N, R10E, S23, 26Descriptive Location of Plots: S of road 717, N of road N80Elevation: 3182' Slope: 14% Aspect: SWDistance to Water: 1/4 mi. to Hole in Ground CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 27 trees /Acre Height: 170' DBH: 39"Species: DF, GF Age: 226 % Crown Closure: 97No. of Live Culls: 0 /AcreStanding Snags:Density: 7 snags /Acre Average Height: 32' /AcreAverage DBH: 27" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1	1	
>20	2	2	1	

No. of Downed Snags: 28 /AcreStand Suitability:

Adequate Marginal Sub-marginal
Habitat: _____ Habitat: _____ Habitat: x _____

Narrative:

The entire unit is marked for a shelterwood cut which will make this unit
inadequate for spotted owls. Spotted owl sites 54 & 55 are located within
one mile of the core area. A new core is being layed out north of this unit.

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 5-2 TRI Comp: 3605District: Mt. AdamsLegal Location: T7N, R10E, S13Descriptive Location of Plots: W of road 839Elevation: 3784' Slope: 26% Aspect: S to WDistance to Water: 1/2 to 3/4 mi. W to Hole in Ground CreekStand Class: D-4, D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 29 trees /Acre Height: 137' DBH: 33"Species: DF, GF, WH, PP Age: >300 % Crown Closure: 70No. of Live Culls: 8 culls /AcreStanding Snags:Density: 15 snags /Acre Average Height: 38' /AcreAverage DBH: 23" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		2		
10-19		2	1	
>20		8	2	

No. of Downed Snags: 10 snags /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

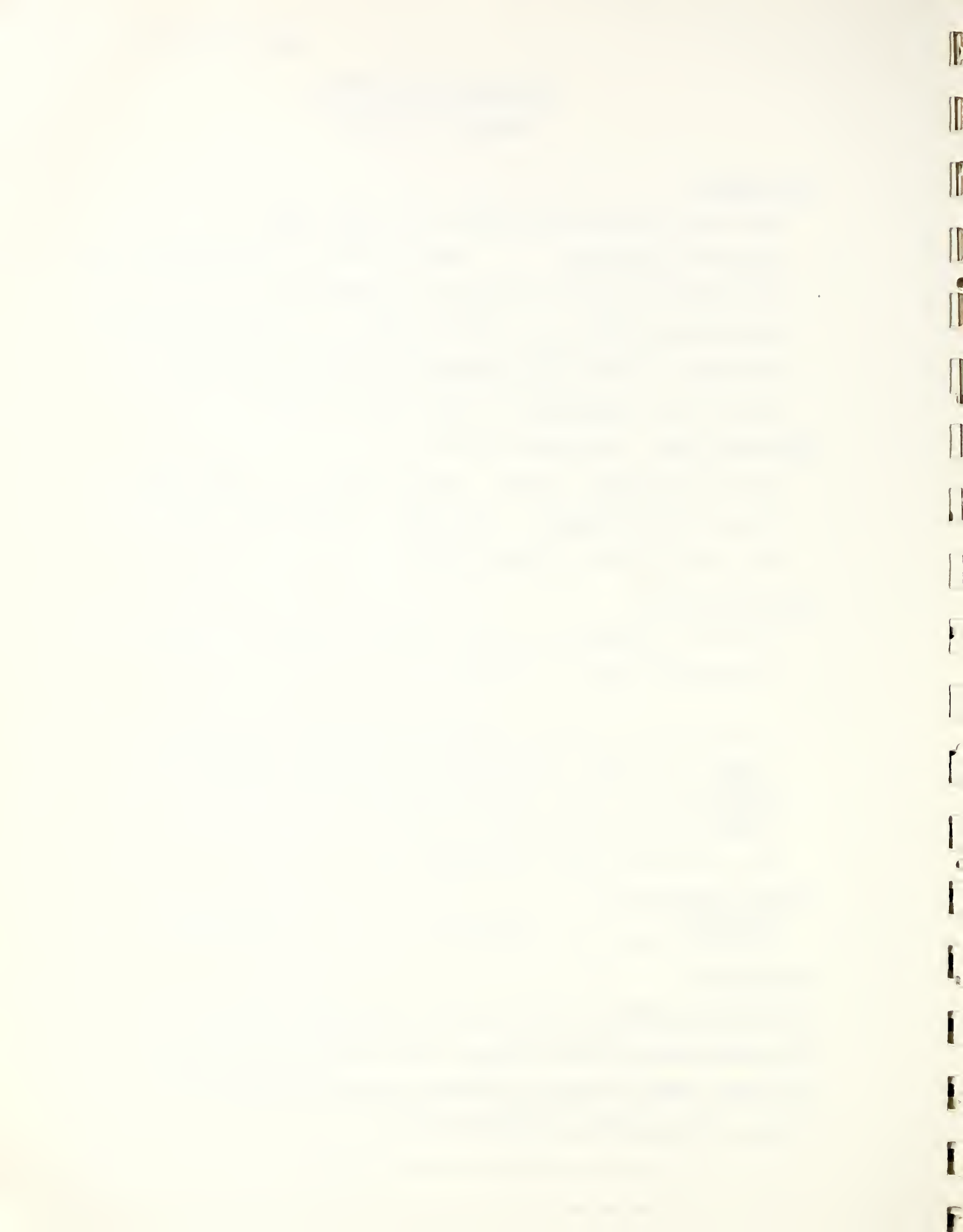
Habitat: x

Habitat: _____

Habitat: _____

Narrative:

This unit is adequate, if barely so, for spotted owls. Some areas are not ideal, but all criteria are met. This is the best we could do in this area. Snags are present, and stand structure is adequate in most areas. Little recreation possibilities here.



R 101/2E

5-2



T 7N

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 5-3 TRI Comp: 3606District: Mt. Adams Legal Location: T7N, R11E, S7, 8, 17Descriptive Location of Plots: along road 839Elevation: 4190' Slope: 21% Aspect: sDistance to Water: 1/2 mi. to Gotchen CreekStand Class: FM 4 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 37 trees/Acre Height: 113' DBH: 24"Species: GF Age: 89 % Crown Closure: 93No. of Live Culls: 0/AcreStanding Snags:Density: 7 snags/Acre Average Height: 42'/AcreAverage DBH: 19"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10			1	
10-19		2	1	
>20		2	1	

No. of Downed Snags: 35/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: _____	Habitat: <u>x</u> _____	Habitat: _____

Narrative:

This unit has trees of adequate size, although they are fairly young. Part
of the stand has been shelterwood cut and snag density is low. This was
the only area available to locate this SOMU. The adequate portion of this
core contains a spotted owl (site #52). The majority of this unit exceeds
the elevation guidelines of 4000'.

R 101/2E

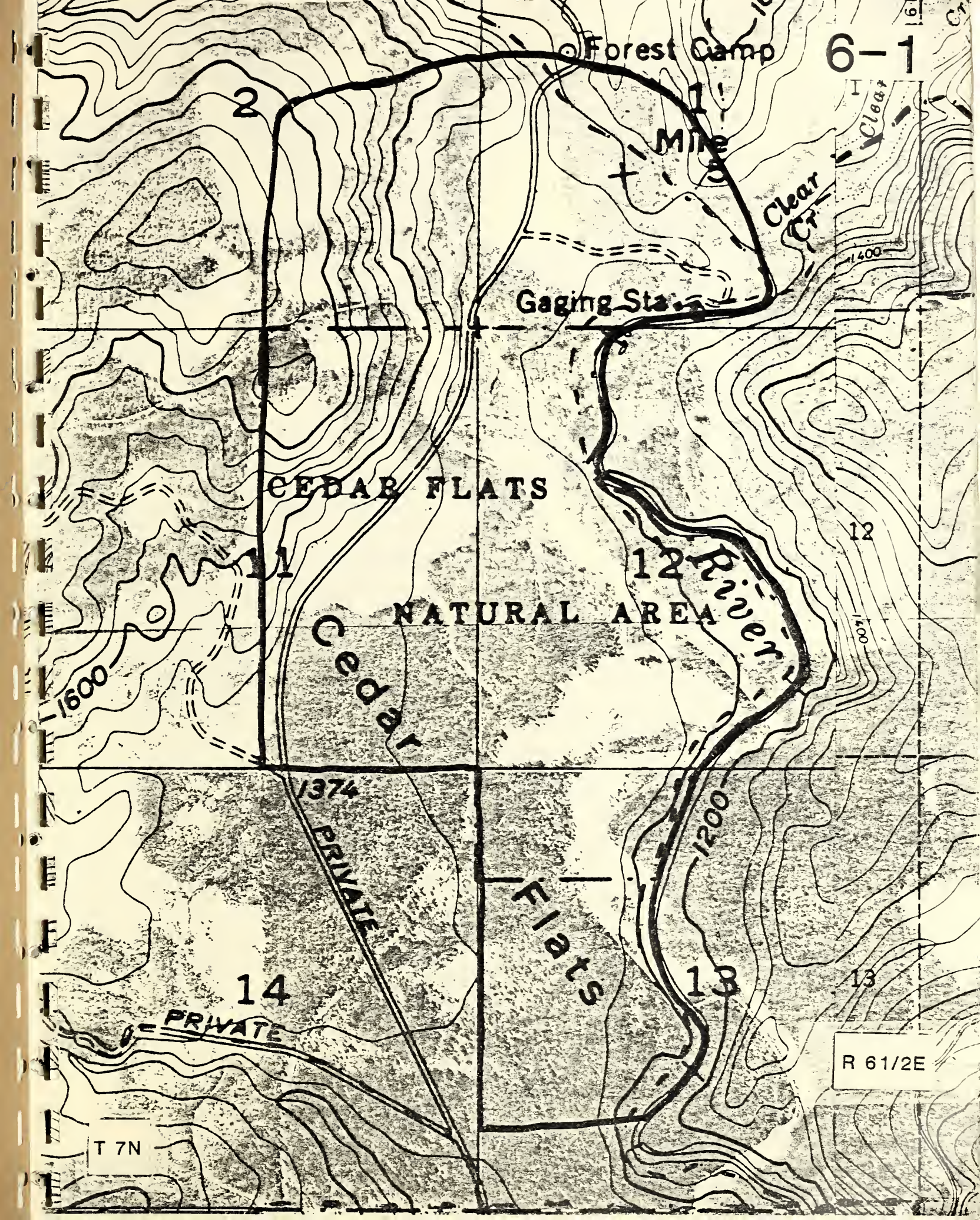
5-3



Smith

T 7N

This topographic map depicts the Soma 6 area in Idaho. The map is characterized by a grid system with letters A through S along the top and numbers 1 through 36 along the right side. Key geographical features include the Muddy River flowing through the center, Spencer Meadow to the north, and the Lewis River to the east. Notable peaks and buttes such as Spencer Peak, Hungry Peak, and Burnt Peak are marked. The map also shows various creeks, including Clear Creek and Big Creek, and several roads, some of which are labeled with route numbers like N92, N93, N94, N95, N96, N97, N98, N99, N100, N101, N102, N103, N104, N105, N106, N107, N108, N109, N110, N111, N112, N113, N114, N115, N116, N117, N118, N119, N120, N121, N122, N123, N124, N125, N126, N127, N128, N129, N130, N131, N132, N133, N134, N135, N136, N137, N138, N139, N140, N141, N142, N143, N144, N145, N146, N147, N148, N149, N150, N151, N152, N153, N154, N155, N156, N157, N158, N159, N160, N161, N162, N163, N164, N165, N166, N167, N168, N169, N170, N171, N172, N173, N174, N175, N176, N177, N178, N179, N180, N181, N182, N183, N184, N185, N186, N187, N188, N189, N190, N191, N192, N193, N194, N195, N196, N197, N198, N199, N200, N201, N202, N203, N204, N205, N206, N207, N208, N209, N210, N211, N212, N213, N214, N215, N216, N217, N218, N219, N220, N221, N222, N223, N224, N225, N226, N227, N228, N229, N230, N231, N232, N233, N234, N235, N236, N237, N238, N239, N240, N241, N242, N243, N244, N245, N246, N247, N248, N249, N250, N251, N252, N253, N254, N255, N256, N257, N258, N259, N260, N261, N262, N263, N264, N265, N266, N267, N268, N269, N270, N271, N272, N273, N274, N275, N276, N277, N278, N279, N280, N281, N282, N283, N284, N285, N286, N287, N288, N289, N290, N291, N292, N293, N294, N295, N296, N297, N298, N299, N300, N301, N302, N303, N304, N305, N306, N307, N308, N309, N310, N311, N312, N313, N314, N315, N316, N317, N318, N319, N320, N321, N322, N323, N324, N325, N326, N327, N328, N329, N330, N331, N332, N333, N334, N335, N336, N337, N338, N339, N340, N341, N342, N343, N344, N345, N346, N347, N348, N349, N350, N351, N352, N353, N354, N355, N356, N357, N358, N359, N360, N361, N362, N363, N364, N365, N366, N367, N368, N369, N370, N371, N372, N373, N374, N375, N376, N377, N378, N379, N380, N381, N382, N383, N384, N385, N386, N387, N388, N389, N390, N391, N392, N393, N394, N395, N396, N397, N398, N399, N400, N401, N402, N403, N404, N405, N406, N407, N408, N409, N410, N411, N412, N413, N414, N415, N416, N417, N418, N419, N420, N421, N422, N423, N424, N425, N426, N427, N428, N429, N430, N431, N432, N433, N434, N435, N436, N437, N438, N439, N440, N441, N442, N443, N444, N445, N446, N447, N448, N449, N450, N451, N452, N453, N454, N455, N456, N457, N458, N459, N460, N461, N462, N463, N464, N465, N466, N467, N468, N469, N470, N471, N472, N473, N474, N475, N476, N477, N478, N479, N480, N481, N482, N483, N484, N485, N486, N487, N488, N489, N490, N491, N492, N493, N494, N495, N496, N497, N498, N499, N500, N501, N502, N503, N504, N505, N506, N507, N508, N509, N510, N511, N512, N513, N514, N515, N516, N517, N518, N519, N520, N521, N522, N523, N524, N525, N526, N527, N528, N529, N530, N531, N532, N533, N534, N535, N536, N537, N538, N539, N540, N541, N542, N543, N544, N545, N546, N547, N548, N549, N550, N551, N552, N553, N554, N555, N556, N557, N558, N559, N560, N561, N562, N563, N564, N565, N566, N567, N568, N569, N570, N571, N572, N573, N574, N575, N576, N577, N578, N579, N580, N581, N582, N583, N584, N585, N586, N587, N588, N589, N590, N591, N592, N593, N594, N595, N596, N597, N598, N599, N600, N601, N602, N603, N604, N605, N606, N607, N608, N609, N610, N611, N612, N613, N614, N615, N616, N617, N618, N619, N620, N621, N622, N623, N624, N625, N626, N627, N628, N629, N630, N631, N632, N633, N634, N635, N636, N637, N638, N639, N640, N641, N642, N643, N644, N645, N646, N647, N648, N649, N650, N651, N652, N653, N654, N655, N656, N657, N658, N659, N660, N661, N662, N663, N664, N665, N666, N667, N668, N669, N670, N671, N672, N673, N674, N675, N676, N677, N678, N679, N680, N681, N682, N683, N684, N685, N686, N687, N688, N689, N690, N691, N692, N693, N694, N695, N696, N697, N698, N699, N700, N701, N702, N703, N704, N705, N706, N707, N708, N709, N710, N711, N712, N713, N714, N715, N716, N717, N718, N719, N720, N721, N722, N723, N724, N725, N726, N727, N728, N729, N730, N731, N732, N733, N734, N735, N736, N737, N738, N739, N740, N741, N742, N743, N744, N745, N746, N747, N748, N749, N750, N751, N752, N753, N754, N755, N756, N757, N758, N759, N760, N761, N762, N763, N764, N765, N766, N767, N768, N769, N770, N771, N772, N773, N774, N775, N776, N777, N778, N779, N780, N781, N782, N783, N784, N785, N786, N787, N788, N789, N790, N791, N792, N793, N794, N795, N796, N797, N798, N799, N800, N801, N802, N803, N804, N805, N806, N807, N808, N809, N810, N811, N812, N813, N814, N815, N816, N817, N818, N819, N820, N821, N822, N823, N824, N825, N826, N827, N828, N829, N830, N831, N832, N833, N834, N835, N836, N837, N838, N839, N840, N841, N842, N843, N844, N845, N846, N847, N848, N849, N850, N851, N852, N853, N854, N855, N856, N857, N858, N859, N860, N861, N862, N863, N864, N865, N866, N867, N868, N869, N870, N871, N872, N873, N874, N875, N876, N877, N878, N879, N880, N881



Forest Camp

6-1

MINE

Clear Cr.

Gaging Sta.

CEDAR FLATS

NATURAL AREA

Cedar

River

1374
PRIVATE

Flats

14
PRIVATE

R 61/2E

T 7N

T 7N

6-2

29

28

LEWIS

BM 1262

Engaging Station

Curly Creek
Campground

Lookout

x 3515

R 61/2E

6-3

4

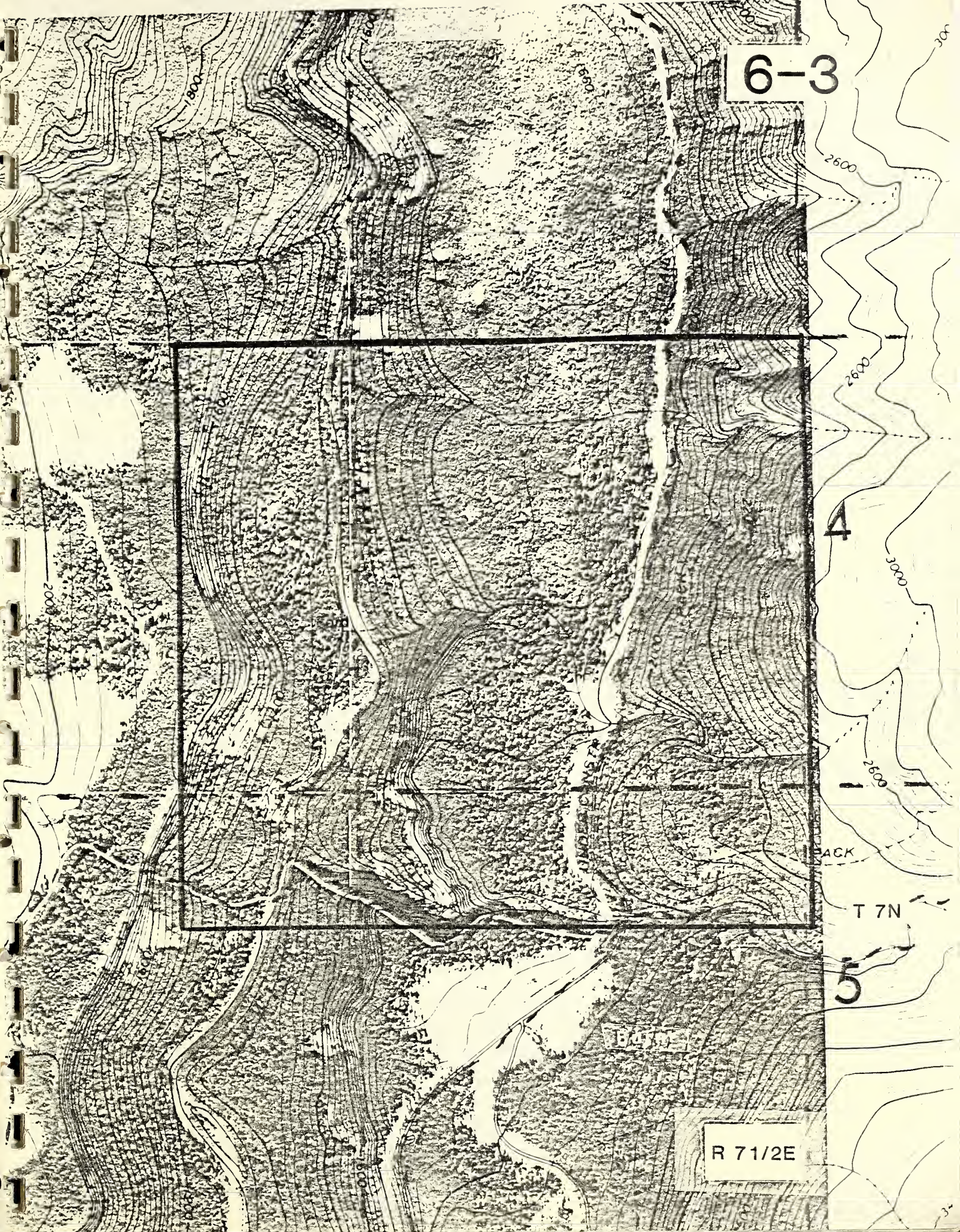
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T 7N

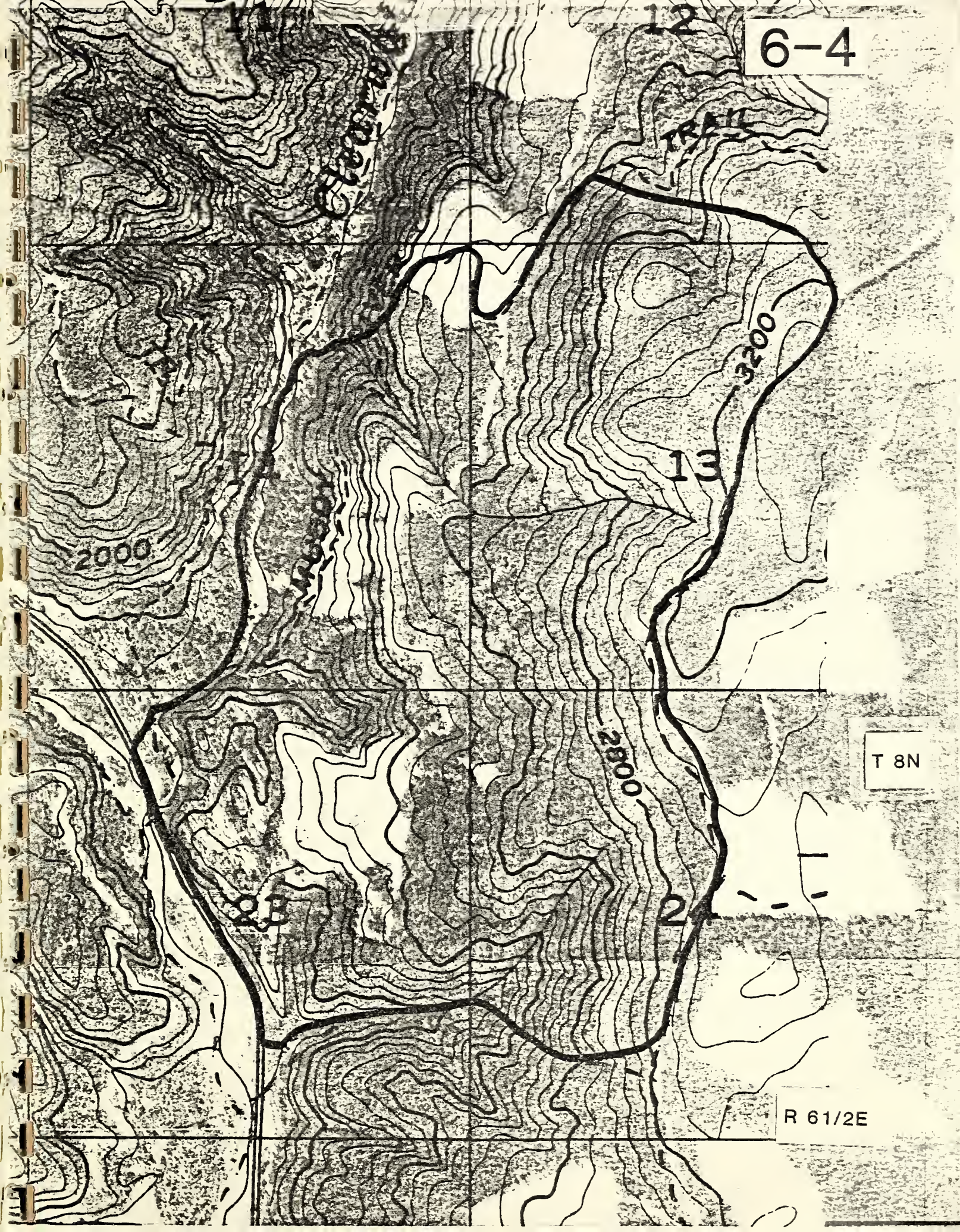
R 71/2E

B47M

BACK



6-4



T 8N

R 61/2E

The image is a topographic map of the Soma area in Idaho. The map is titled 'SOMA' in large, bold letters at the top right. A thick black line outlines the Soma 7 quadrangle, which is labeled 'SOMA 7' in the upper right corner. Within this quadrangle, there is a smaller black line that outlines a specific area, possibly a study site or a specific feature. The map shows various geographical features, including mountains (Mt. St. Helens, Goat Mtn, Cinnamon Peak), lakes (Goat Lake, June Lake, Merrill Lake, Kalamia Lake, McHugh Lake, Grass Lake), and rivers (Coeur d'Alene, Snake, Salmon). There are also labels for 'SOMA', 'MT ST HELENS', 'GOAT MTN', 'CINNAMON PEAK', 'MERRILL LAKE (STATE)', 'KALAMIA SPRINGS', 'MC HUGH LAKE', 'GRASS LAKE', 'SWIFT DAM', and 'SOMA 7'. The map is overlaid with a grid of latitude and longitude lines, and various numerical labels are scattered throughout, likely representing elevation or other data points. The map is oriented with North at the top.

7-1

T 8N

Jackpine
Shelter

F

2800

30

3200

2345

2800

31

32

R 51/2E

7-2

3

C3

35

D3

T 71/2N

3

2

D4

R 5E

10

11

7-3

Crater Lake

18

17

T 7N

CAVER

LAVA

20

19

24

R 41/2E

1200

1600

7-4

27

26

2800

River

JEEP

TRAIL

34

3200

35

T 71/2N

2800

3

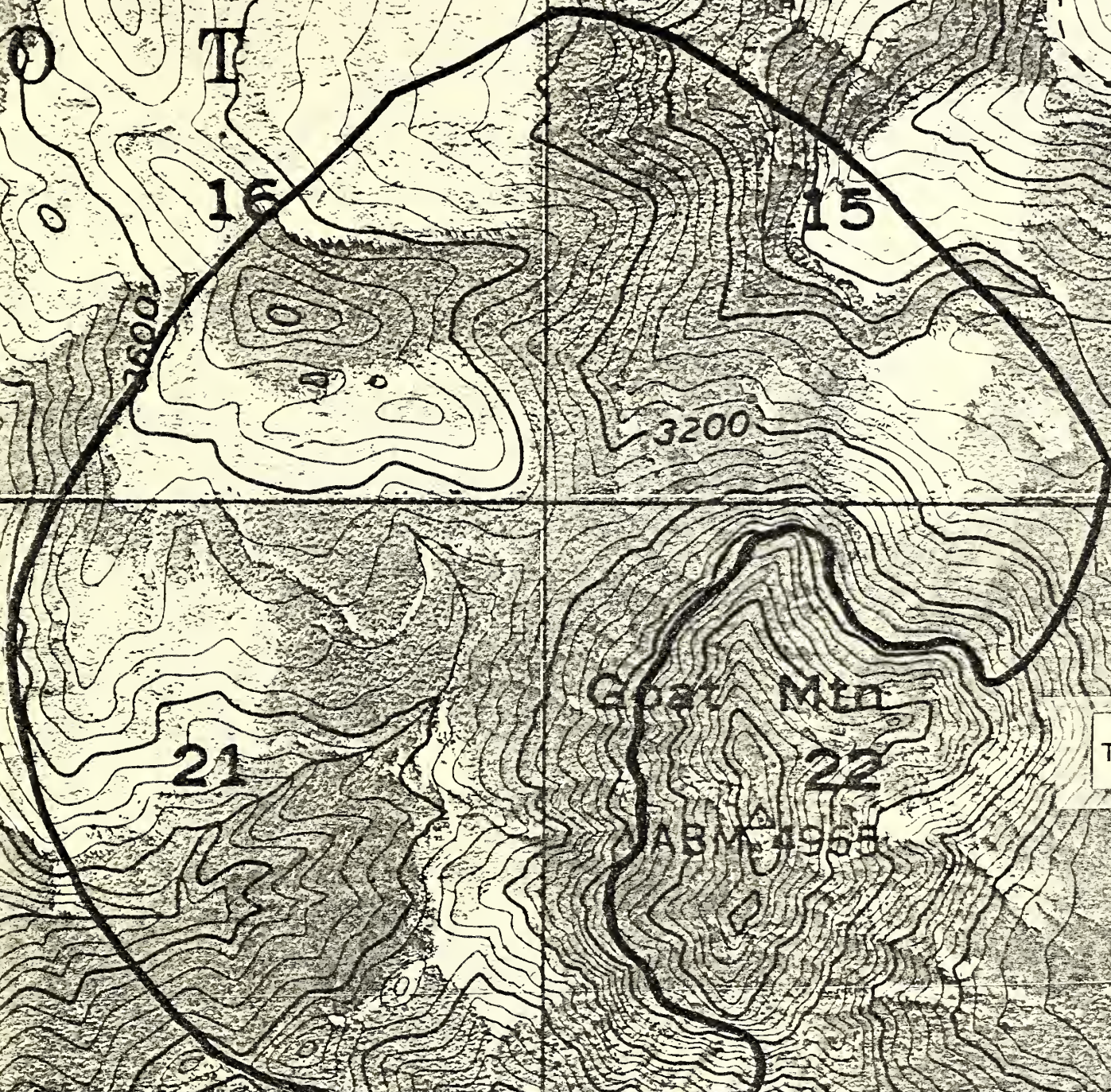
Creek

2

R 41/2E

Cinnamon Pk

7-5

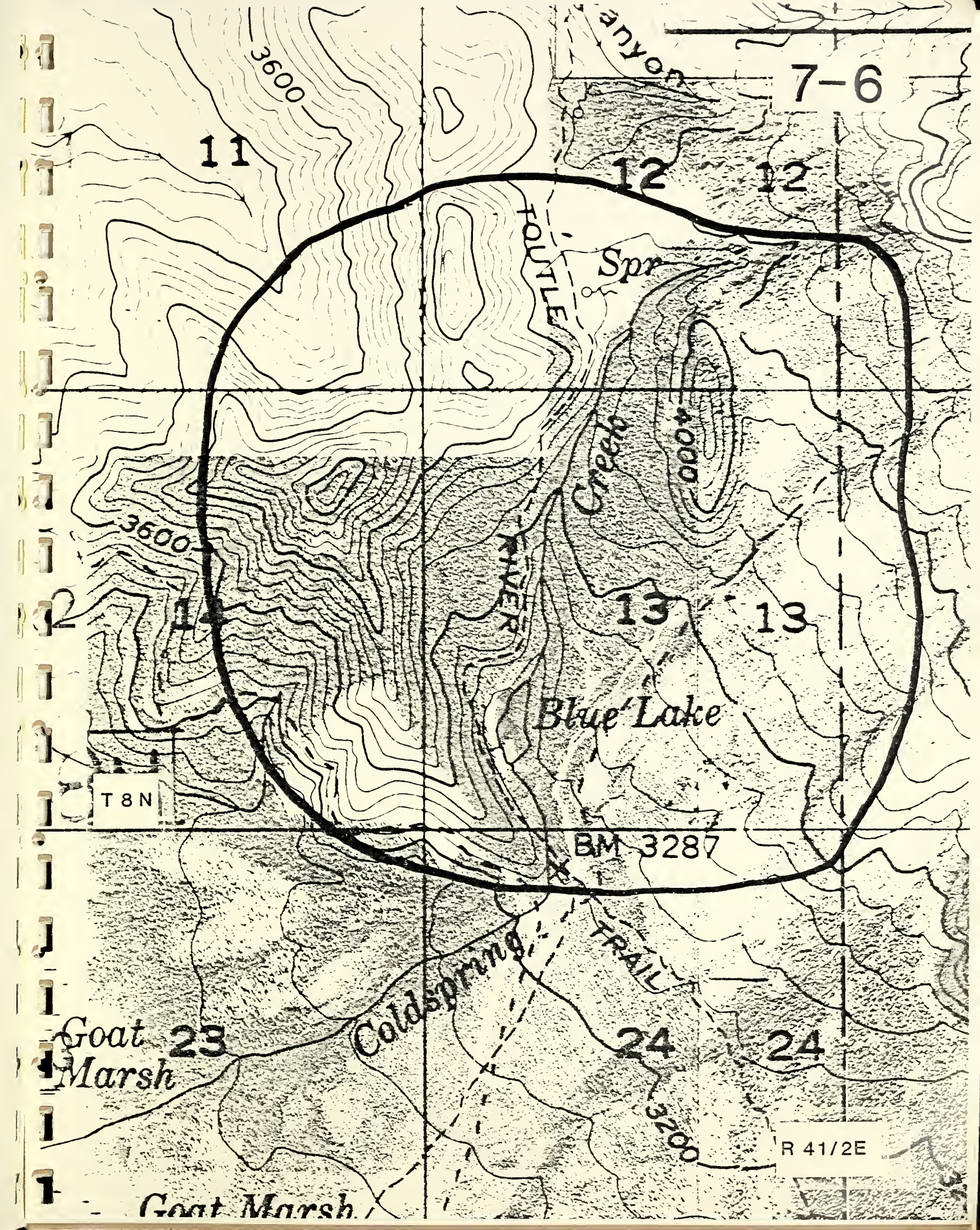


T 8N

R 4E

28

27



11

7-6

12

12

FOURTEEN

Spr

Creek

4000

3600

14

13

13

Blue Lake

T 8 N

BM 3287

Goat

23

Marsh

Cold Spring

TRAIL

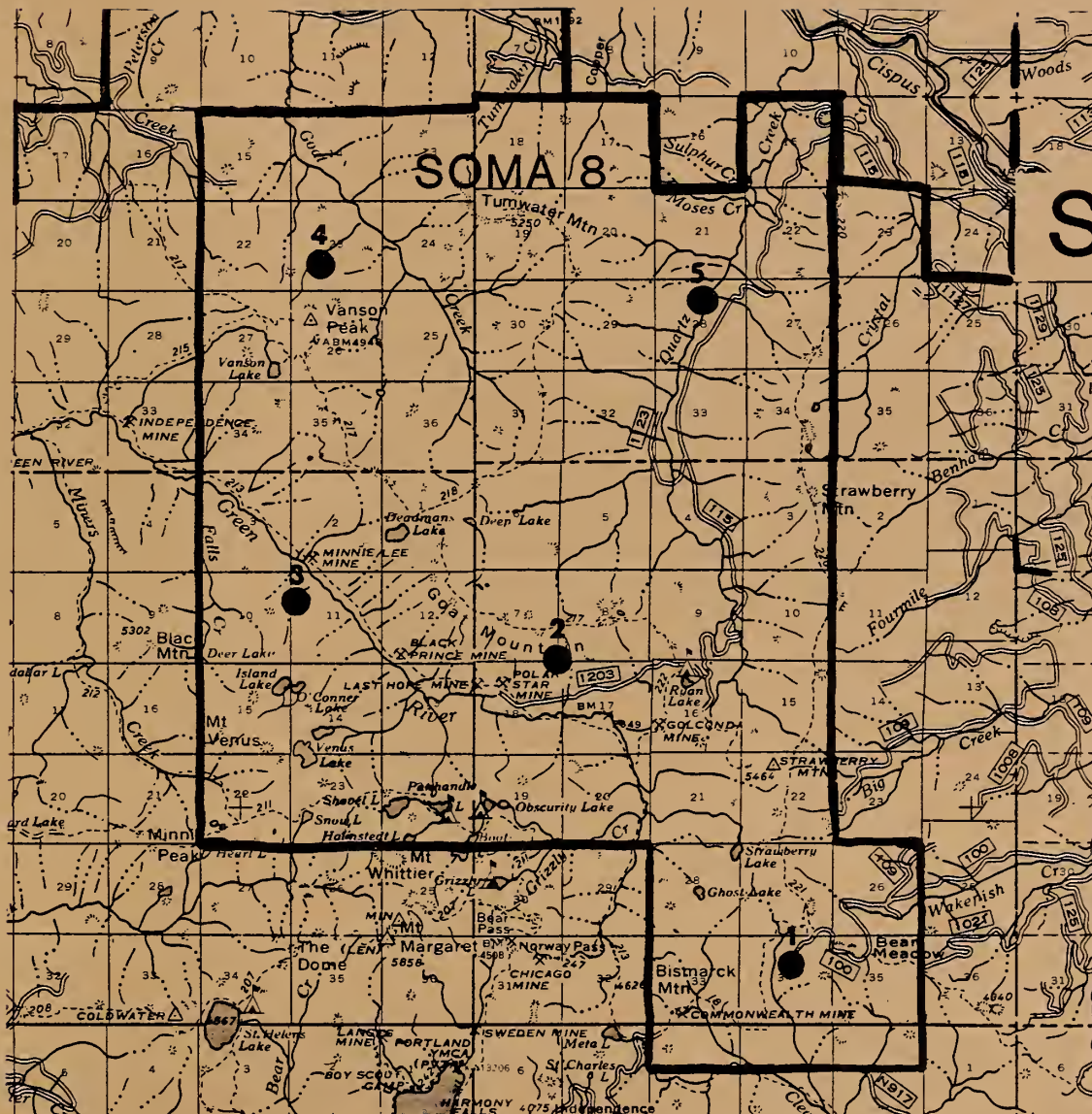
24

24

5200

R 41/2E

Goat Marsh



SOMA 8

8-1

26

Wakepish

Bear
Meadow

JEEP

4278

TRAIL

34

35

T 101/2N

R 6E

Clearing 3

JEEP

Lake

ry
ke

alth

5874

48

4000

4000

4000

8-2

MOUNTAIN

5400

8

2800

East Hope

Mine

Polar Star Mine

3200

18

17

3200

T 10N

Panhandle
Lake

R 6E

Obscurity
Lake

20

T 101/2N

8-3

8-3

2

R 5E

8-4

2300

15

1500

14

3127

Good

T 11N

2800

3600

22

23

4000

Vanson Pk

Lookout

ABM 4948

27

Vanson Meadow

Vanson
Lake

25

3600

R 5E

4865

4400

46

T 11N

Masses

8-5

4962

3200

21

20

2000

400

29

28

2800

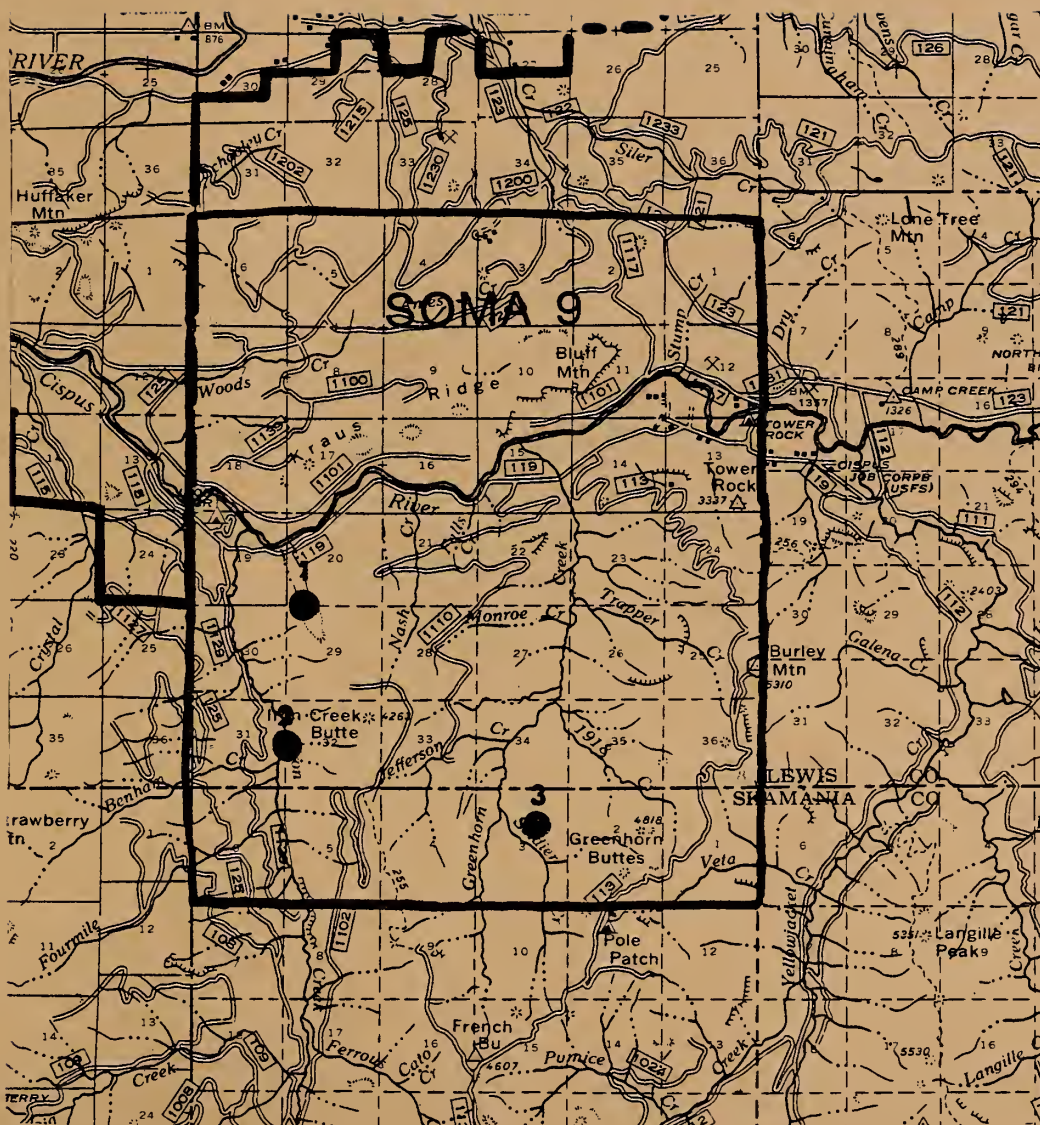
844

Warts

R 6E

32

23



SOMA 9

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 9-1 TRI Comp: 5302District: Randle Legal Location: T11N, R7E, S19, 30Descriptive Location of Plots: E of road 119AElevation: 1826' Slope: 30% Aspect: NWDistance to Water: 1/2 mi. to Iron CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 33 trees/Acre Height: 142' DBH: 36"Species: DF Age: 378 % Crown Closure: 99No. of Live Culls: 0/AcreStanding Snags:Density: 13 snags/Acre Average Height: 66'/AcreAverage DBH: 23"/Acre

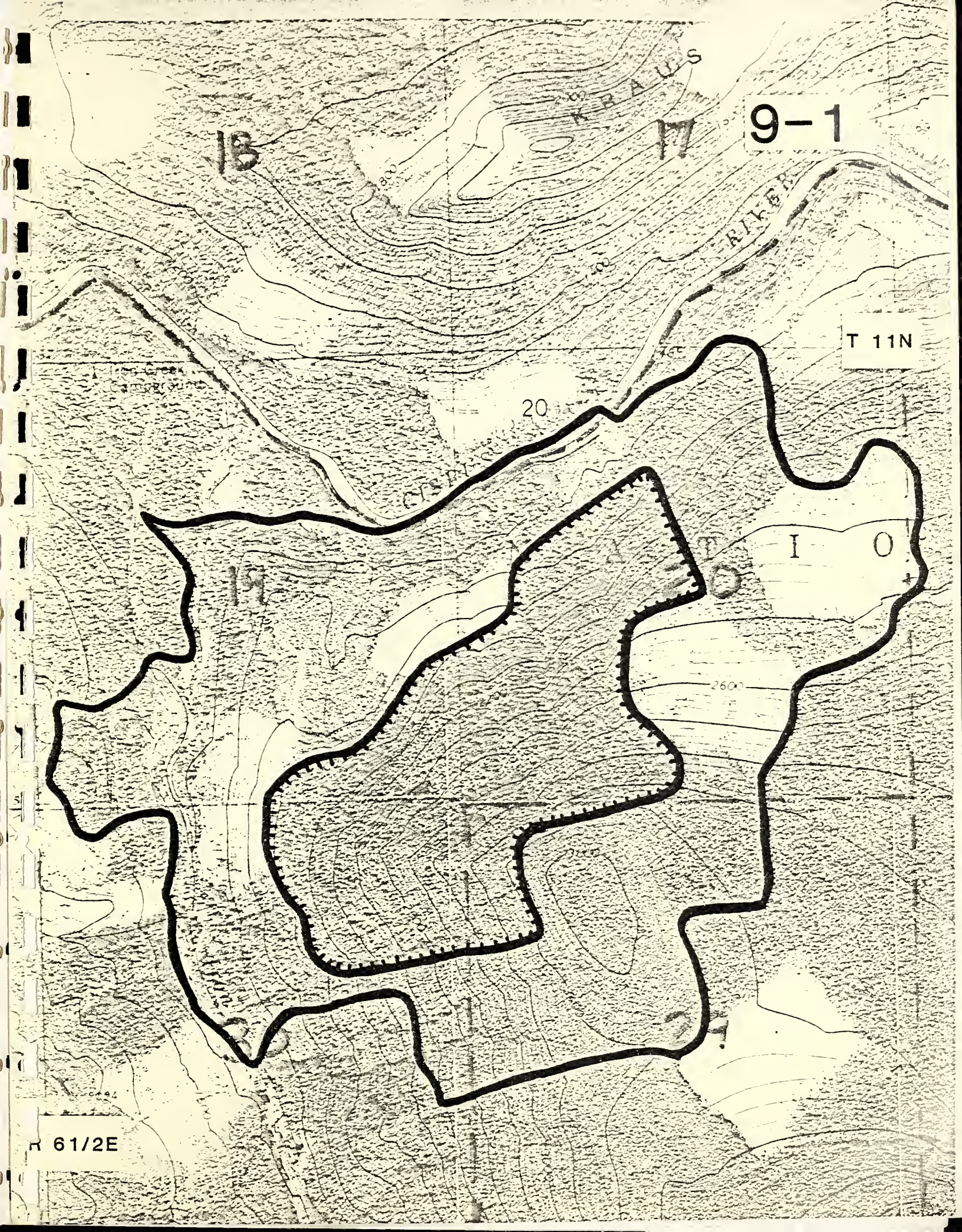
DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		1		
10-19		2	1	
>20	2	4	1	2

No. of Downed Snags: 31/AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>X</u>	Habitat: _____	Habitat: _____

Narrative:

This is a rugged unit. Interference should be light. The stand is well - layered. Canopy closure and snags are adequate. Three spotted owl sightings within 1 mi. of core in 1979 (site #43, 44, 45).



9-1

T 11N

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 9-2 TRI Comp: 5302District: Randle Legal Location: T11N, R7E, S32Descriptive Location of Plots: E of road 1129, N of road 1102Elevation: 2291' Slope: 47% Aspect: WDistance to Water: 1/8 mi. to Iron CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 27 trees/Acre Height: 104' DBH: 25"Species: DF, WH Age: 230 % Crown Closure: 98No. of Live Culls: 0/AcreStanding Snags:Density: 12 snags/Acre Average Height: 38'/AcreAverage DBH: 19"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		5	2	
>20	1	2		2

No. of Downed Snags: 21/AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: x

Habitat: _____

Habitat: _____

Narrative:

This stand has all old-growth characteristics. The area is very rugged.

Recreation possibilities are low. An owl was sighted 3/4 mi. away (Site #43)



9-2

30

29

31

T 101/2N

Beed

D 61/2E

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 9-3 TRI Comp: 5501District: Randle Legal Location: T10N, R7E, S3Descriptive Location of Plots: E of Road 1110Elevation: 3930' Slope: 26% Aspect: NW-SWDistance to Water: 3/4 mi. W to Greenhorn CreekStand Class: FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 16 trees /Acre Height: 112' DBH: 28"Species: WH, DF, PSF Age: 284 % Crown Closure: 92No. of Live Culls: 2 culls /AcreStanding Snags:Density: 25 snags /Acre Average Height: 70' /AcreAverage DBH: 27" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19				1
>20		9	9	6

No. of Downed Snags: 27 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: X

Habitat: _____

Habitat: _____

Narrative:

This is a decadent stand with many snags and culls. Many cavities are present
in snags. The canopy is open many places, but the adequate snag densities
should offset this deficiency. This unit borders the 4000' level. We have
no owls located here.

9-3

T 101/2N

BOUNDARY

Soldier

R 7E

4

5

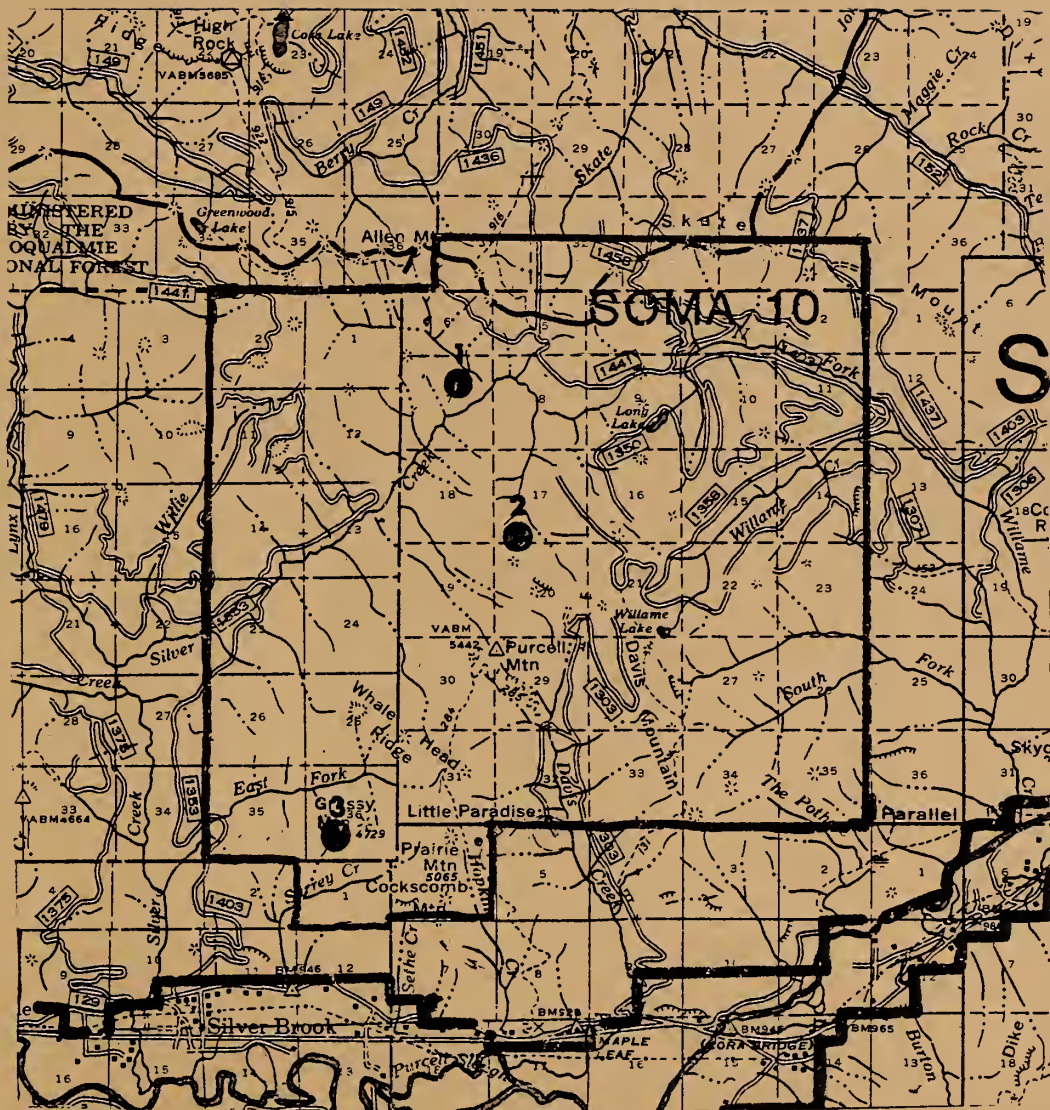
LEWIS
MAN

Creek

Spring

Creek

Vegetation



SOMA 10

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 10-1 TRI Comp: 5103District: Randle Legal Location: T14N, R8E, S7Descriptive Location of Plots: NW of road 140Elevation: 2422' Slope: 29% Aspect: Distance to Water: 1000 ft. E to Silver CreekStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 30 trees /Acre Height: 211' DBH: 50"Species: DF, WH Age: 328 % Crown Closure: 94No. of Live Culls: 2 culls /AcreStanding Snags:Density: 17 snags /Acre Average Height: 33' /AcreAverage DBH: 20" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10			1	
10-19	1	1		
>20	4	5	5	

No. of Downed Snags: 33 /AcreStand Suitability:

Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: <u></u>	Habitat: <u></u>

Narrative:

Douglas fir and western hemlock make up the old growth. There is an old
selective cut along the stream that does not degrade the core. A road passes
through the core. We did not locate an owl here. Clearcuts surround this
unit, but they are not continuous enough to block access through the buffer zone.

R 71/2E

10-1

T 14 N

T 13 N

T 13 1/2 N

Creek

6

5

8

18

17

4000

4867

4000

3200

7

3000

3600

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 10-2 TRI Comp: 5103District: Randle Legal Location: T13N, R7E, S17, 20Descriptive Location of Plots: W of Rd 1303-S of Rd. 1403Elevation: 3292' Slope: 37% Aspect: SE-NWDistance to Water: 0 - 1/3 mi. from Silver CreekStand Class: FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 21 trees/Acre Height: 160' DBH: 43"Species: DF, WH, PSF Age: 363 % Crown Closure: 96No. of Live Culls: 4 culls/AcreStanding Snags:Density: 14 snags/Acre Average Height: 59'/AcreAverage DBH: 30"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1	3	
>20		4	4	2

No. of Downed Snags: 22/AcreStand Suitability:

Adequate Marginal Sub-marginal
Habitat: x Habitat: _____ Habitat: _____

Narrative:

Overstory tree size, stand structure and snag density are suitable for owl habitat. Pacific silver fir dominates on the ridge top and hemlock in the drainage bottom. A new road is being built in the drainage with limited harvest for snag control. An owl was located in 1979 1/2 mi. west of the core area.

R. 71/2E

10-2

8

Creek

3600

18

17

IN

HI

T 13N

4000

3600

20

4400

400

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 10-3 TRI Comp: 5106District: Randle Legal Location: T13N, R7E, S36Descriptive Location of Plots: E of Pvt Section 35Elevation: 2850' Slope: 73% Aspect: S & NDistance to Water: 580 Ft. to E Fork of Silver CreekStand Class: FM5; D-4, D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 21 trees /Acre Height: 155' DBH: 36"Species: DF, WH, WRC Age: 343 % Crown Closure: 94No. of Live Culls: 0 /AcreStanding Snags:Density: 10 snags /Acre Average Height: 99' /AcreAverage DBH: 27" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19				
>20	1	2	2	5

No. of Downed Snags: 25 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: _____

Habitat: x

Habitat: _____

Narrative:

This is not adequate habitat, but there are no alternatives available. Land ownership and elevation are the reasons. Two sides of the core are pvt. land. The other two sides are above 4000'. The proposed buffer is south of the core. A large meadow on Grassy Mtn. Must be flown around to reach the buffer, provided the owls would pass over the high ridge. No owls were found here.

R 71/2E

578

25

10-3

T 121/2N

3

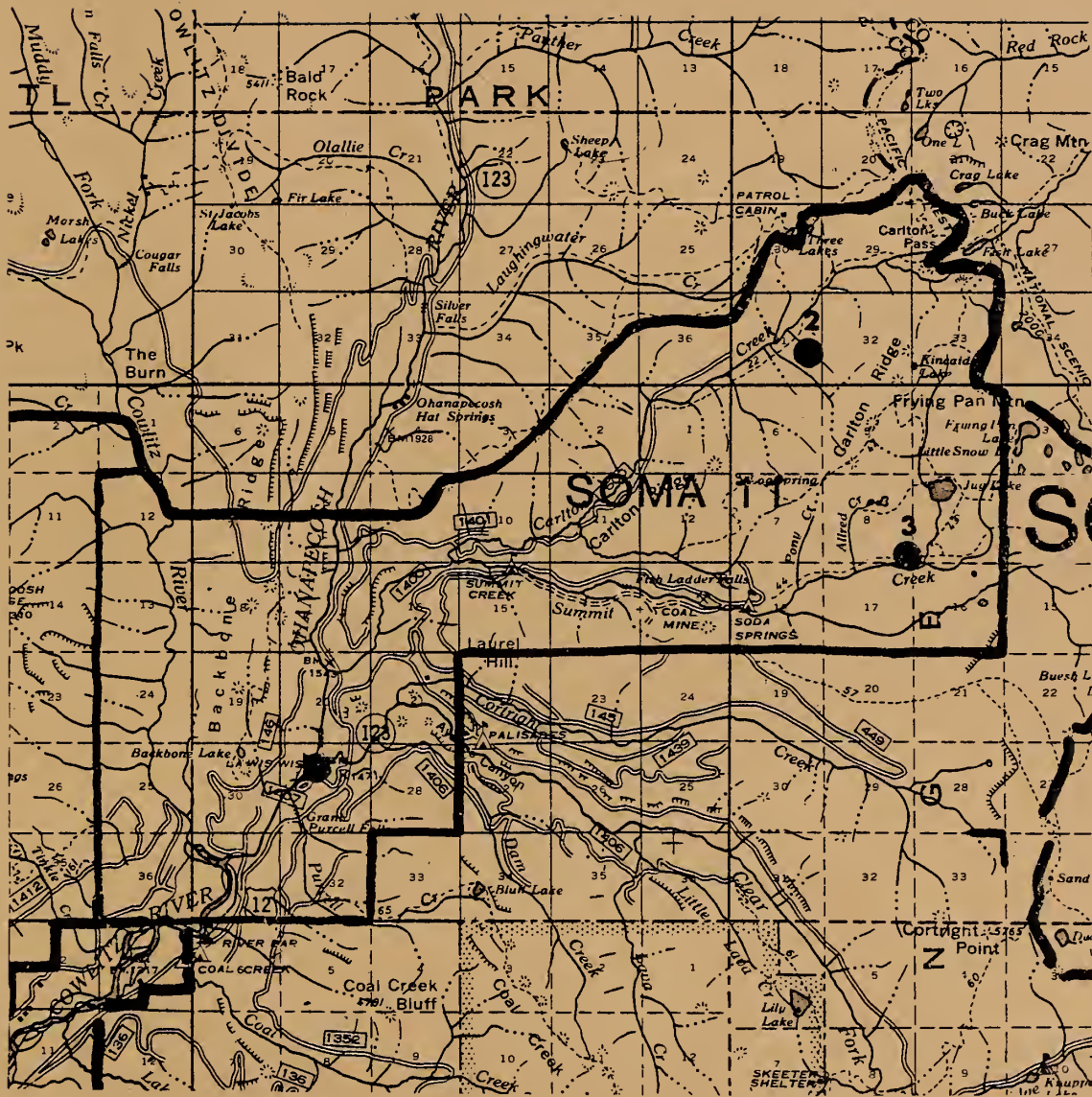
6

4738

Prairie

Spring

Map



SOMA 11

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 11-1 TRI Comp: 4205District: PackwoodLegal Location: T14N, R10E, S20, 26, 27Descriptive Location of Plots: Trail 162 & La Wis Wis areaElevation: 1474' Slope: 37% Aspect: S, SE, W, EDistance to Water: 0' to 400' to Ohanopecosh RiverStand Class: D-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 44 trees /Acre Height: 130' DBH: 32"Species: DF Age: 254 % Crown Closure: 97No. of Live Culls: 1 cull /AcreStanding Snags:Density: 6 snags /Acre Average Height: 42' /AcreAverage DBH: 15" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10			1	
10-19	1	1	1	
>20		1	1	

No. of Downed Snags: 12 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

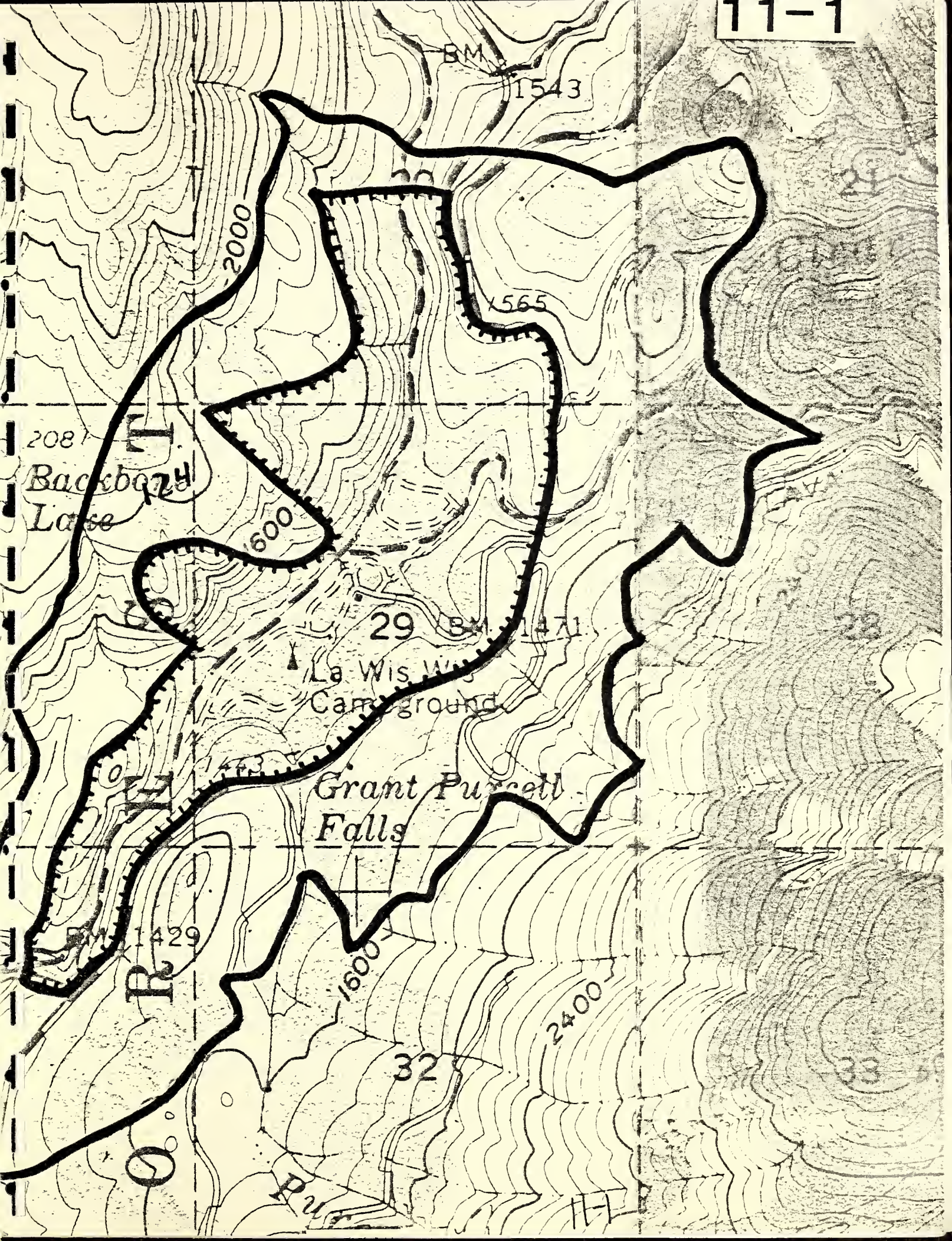
Habitat: X

Habitat: _____

Habitat: _____

Narrative:

Area lacks small understory trees. There is a high level of recreational use here due to La Wis Wis Campground, trail #162 and Hwy 12. An owl was located here during the 1978 survey. Large tracts of old-growth in Mt. Rainer National Park should provide opportunities for interaction with this unit.



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 11-2 TRI Comp: 4401District: Packwood Legal Location: T15N, R11E, S31Descriptive Location of Plots: Carlton Creek Trail #22Elevation: 3442' Slope: 12% Aspect: NW-SWDistance to Water: 400 Ft. NW to Carlton CreekStand Class: FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 20 trees /Acre Height: 130' DBH: 39"Species: WH, GF, DF, WRC Age: >300 % Crown Closure: 97No. of Live Culls: 1 cull /AcreStanding Snags:Density: 10 snags /Acre Average Height: 55' /AcreAverage DBH: 31" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		1		
>20	1	2	6	

No. of Downed Snags: 41 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: X

Habitat: _____

Habitat: _____

Narrative:

This is a multi-layered stand with large snags. Part of this unit is
 in a proposed wilderness. Carlton Creek Trail is well maintained with
 easy access to the Crest Trail. Hunting activity is heavy.

R 101/2E

11-2

SHEES

LAKE

5556

25 2

TRAIL

Three
Lakes

Patrol
Cabin

4800

Creek

Laughtins

4000

36

36

3600

Creek

31

3200

4400

Log

4932

Springs

4932

5660

T 141/2N

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 11-3 TRI Comp: 4401District: Packwood Legal Location: T14N, R11E, S8, 9, 17Descriptive Location of Plots: Cowlitz Trail #14Elevation: 3770' Slope: 24% Aspect: SWDistance to Water: 500' south to Summit CreekStand Class: FM-5, D-4 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 26 trees /Acre Height: 120' DBH: 29"Species: DF, GF Age: 187 % Crown Closure: 99No. of Live Culls: 1 cull /AcreStanding Snags:Density: 10 snags /Acre Average Height: 46' /AcreAverage DBH: 26" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10		2		
10-19	1		3	
>20			2	2

No. of Downed Snags: 13 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: X

Habitat: _____

Habitat: _____

Narrative:

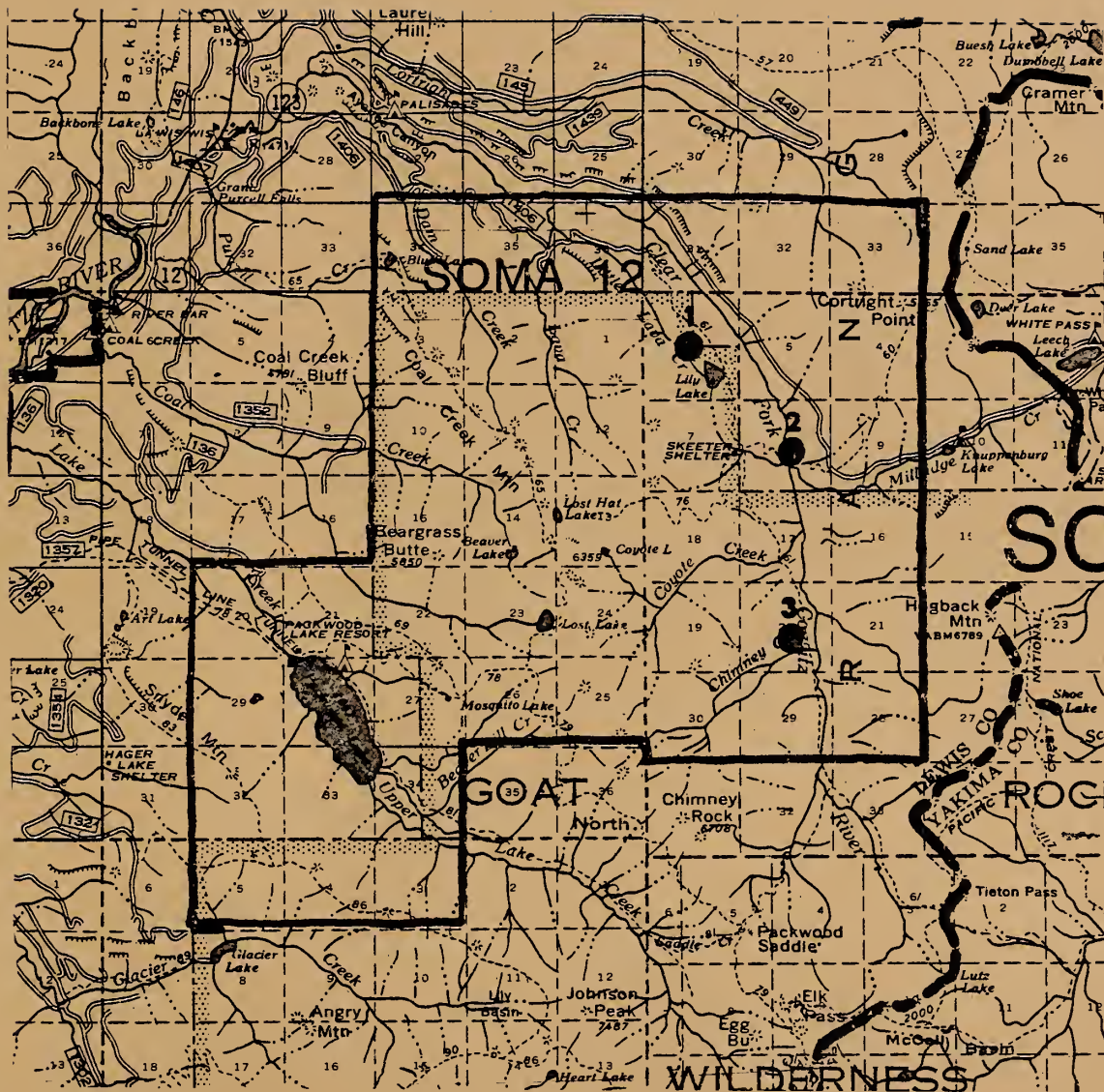
High recreational use associated with the Cowlitz trail takes place in this unit. The stand is multi-layered with many suitable snags. Two owl sightings were made in the 1979 survey (site 91, 94) sighting 94 was a pair. Several strips of small timber, caused by fire, are present.



11-3

T 14N

R 11E



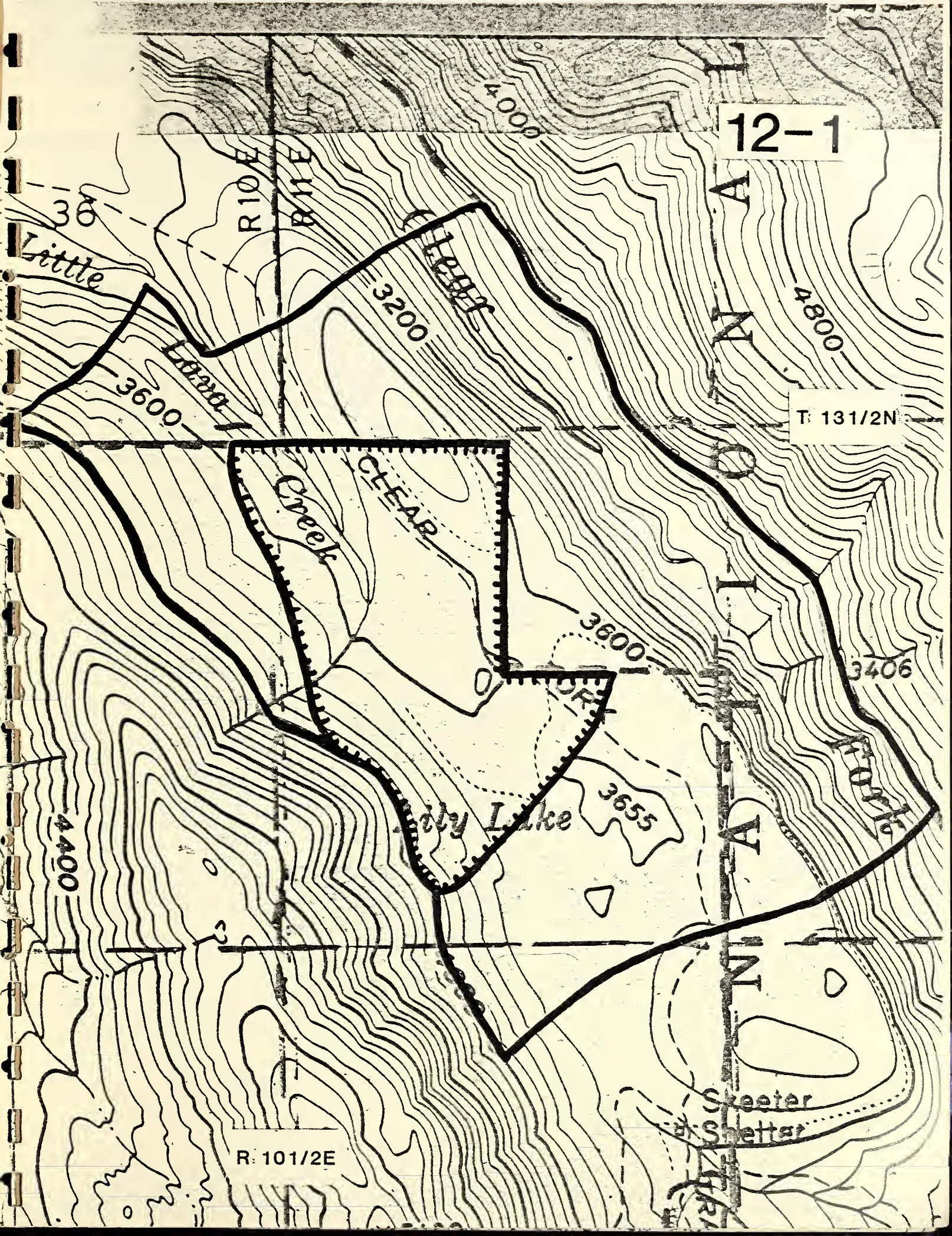
SOMA 12



12-1

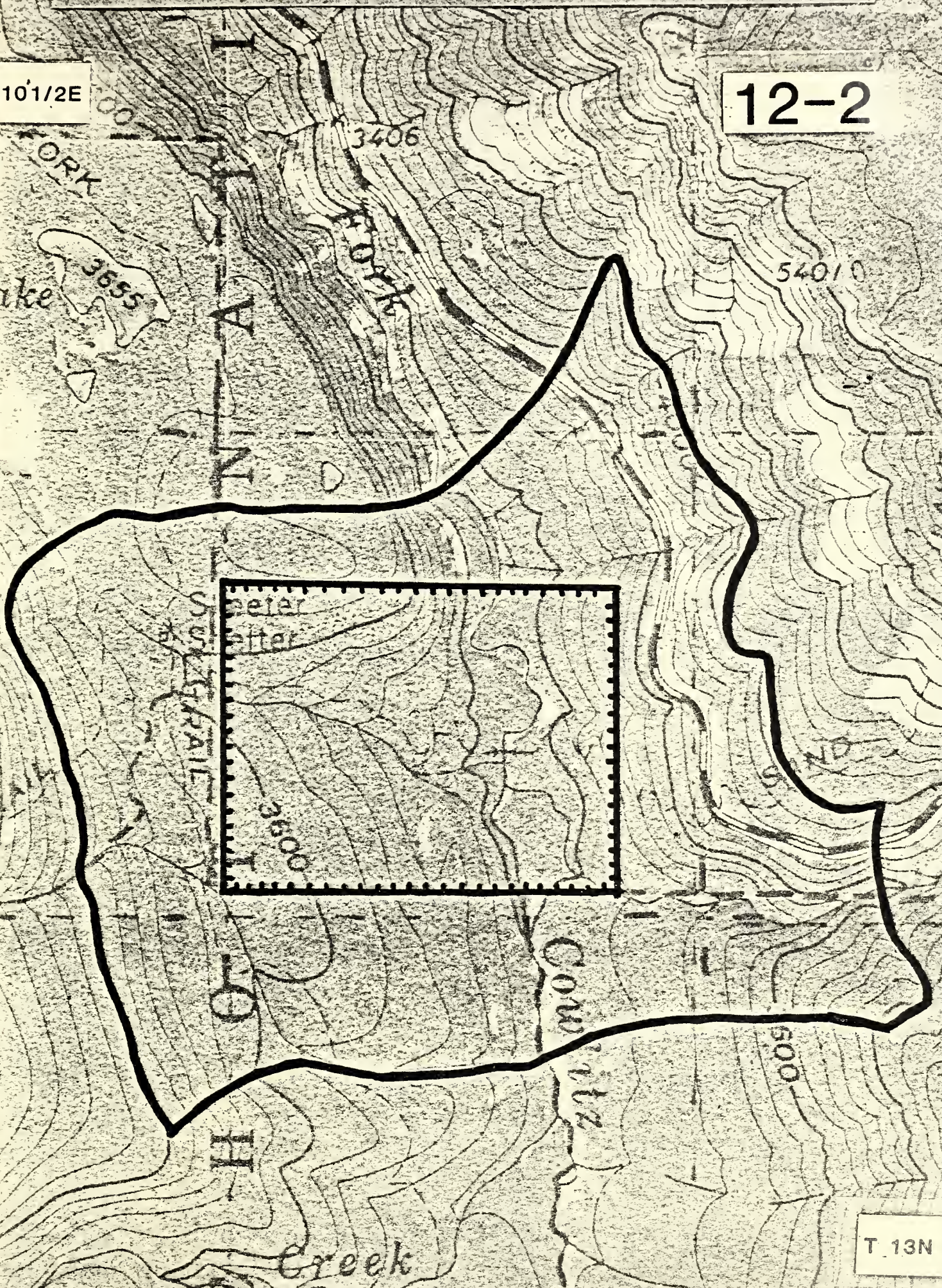
T. 131/2N

R. 101/2E



R101/2E

12-2



T. 13N

12-3

T 13N

56

Creek

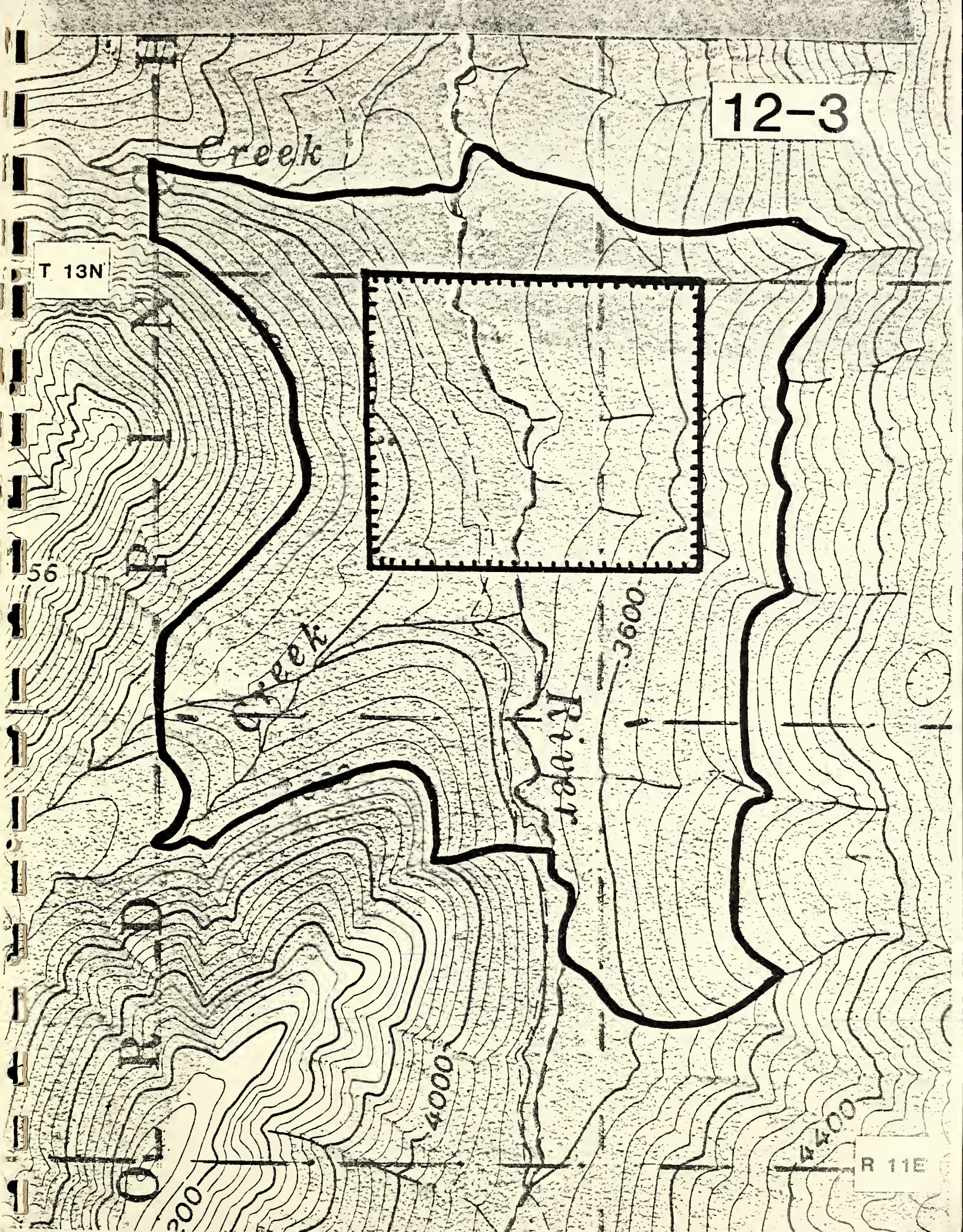
River

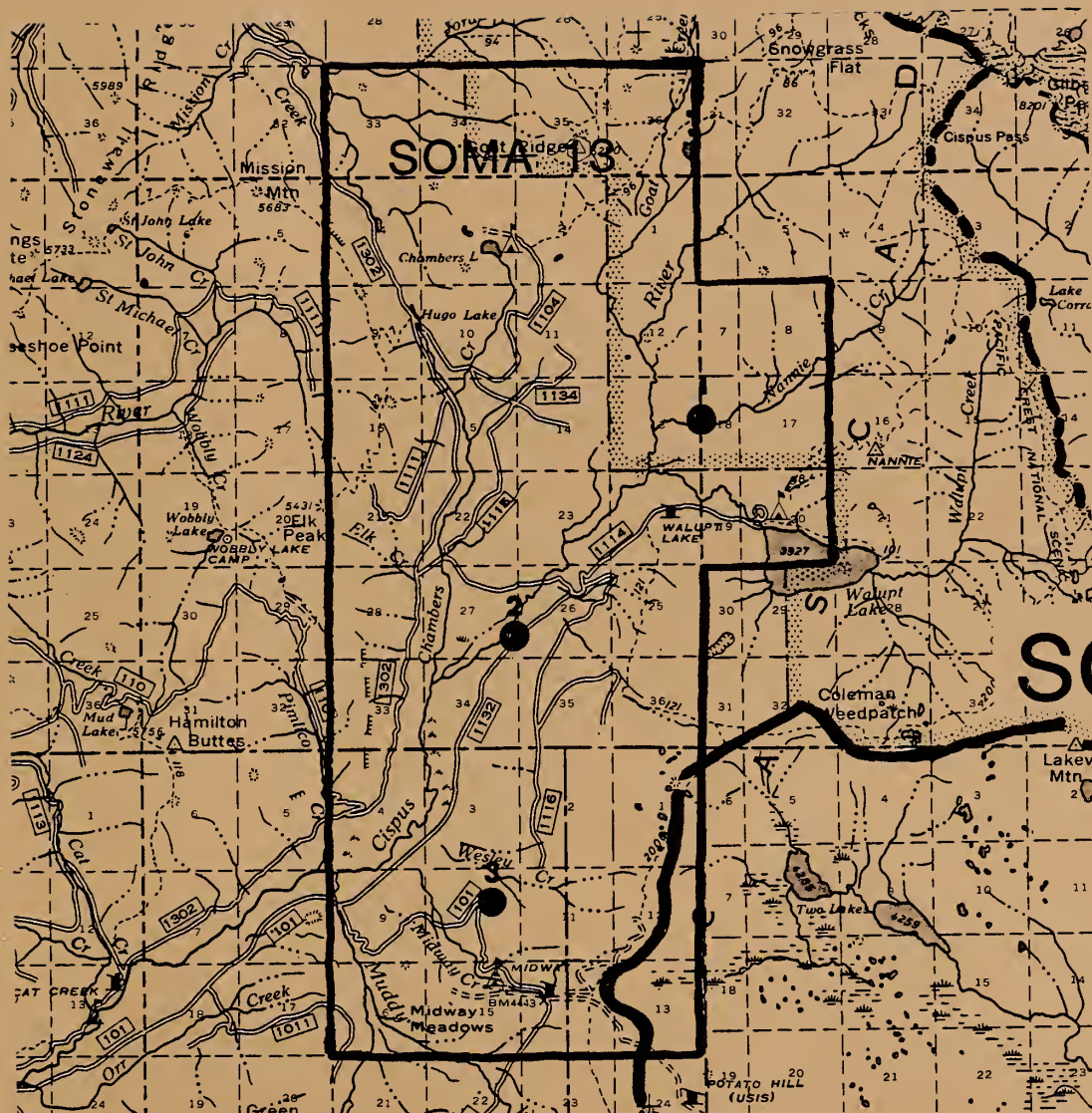
3600

4000

4400

R 11E





SOMA 13

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 13-1 TRI Comp: 4901, 4707District: Packwood Legal Location: T11N, R10E, S13Descriptive Location of Plots: E. of Rd. 1115A (Goat Rocks)Elevation: 3866' Slope: 30% Aspect: WDistance to Water: 1/2 mi. E to Cispus RiverStand Class: FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 27 trees /Acre Height: 116' DBH: 26"Species: MH, DF Age: 310 % Crown Closure: 94No. of Live Culls: 5 culls /AcreStanding Snags:Density: 18 snags /Acre Average Height: 49' /AcreAverage DBH: 23" /Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19		3	1	
>20	5	2	7	

No. of Downed Snags: 12 /AcreStand Suitability:

Adequate

Marginal

Sub-marginal

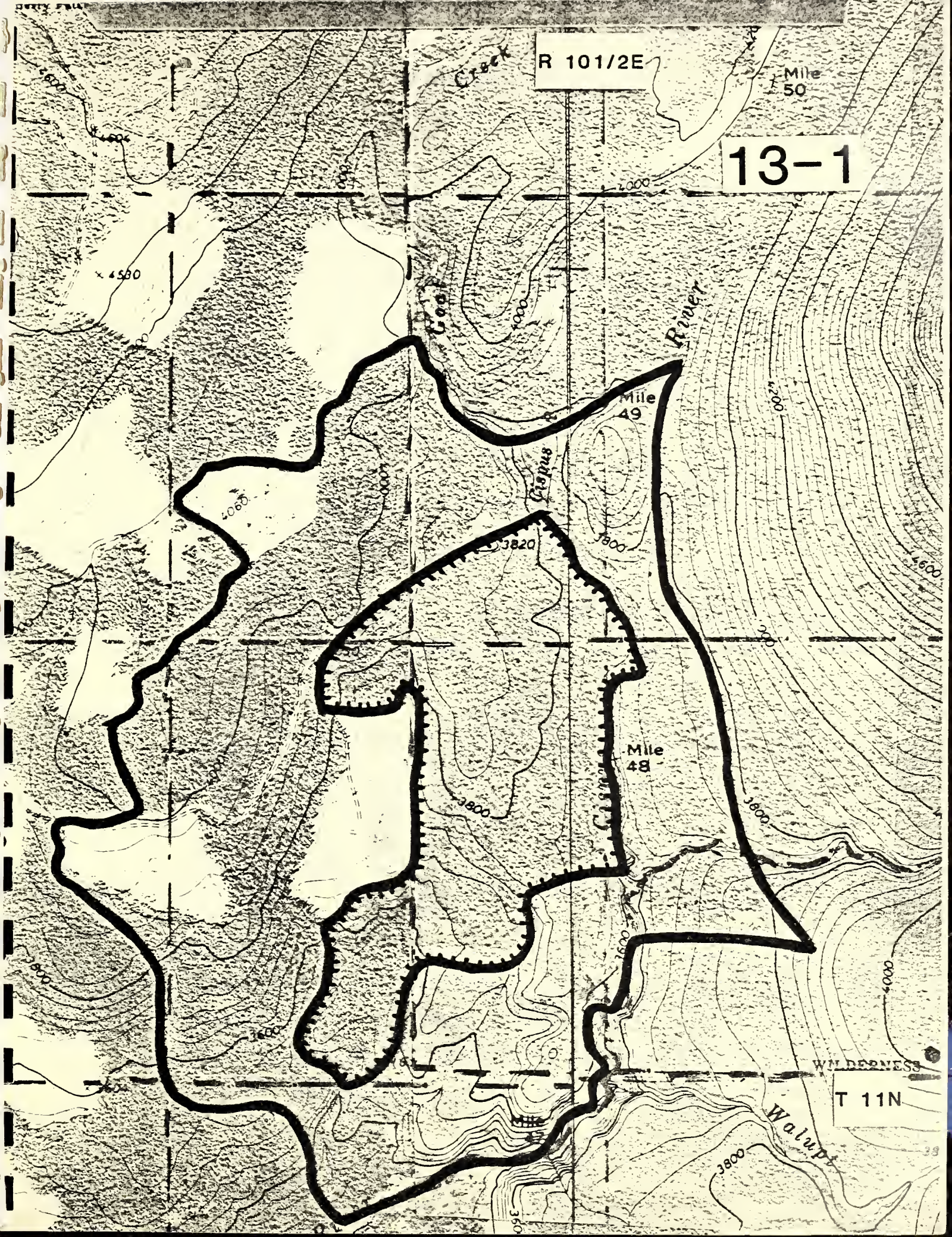
Habitat: X

Habitat: _____

Habitat: _____

Narrative:

All habitat requirements of spotted owls are met in this unit. The road into the clearcut that borders the unit on the west is a dead-end, so disturbance will be minimal. There are no trails in the unit. Part of of this unit is in the Goat Rocks Wilderness Area. We have no owls located in this unit.



SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 13-2 TRI Comp: 4902District: Packwood Legal Location: T11N, R10E, S27, 34Descriptive Location of Plots: E of Road 1302Elevation: 3170' Slope: 1% Aspect: EDistance to Water: 320 Ft. to Chambers CreekStand Class: D-5, FM-5 Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 29 trees/Acre Height: 142' DBH: 46"Species: DF, WH, WRC, ES Age: 461 % Crown Closure: 99No. of Live Culls: 0/AcreStanding Snags:Density: 11 snags/Acre Average Height: 59'/AcreAverage DBH: 38"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19				
>20	1	2	7	1

No. of Downed Snags: 23/AcreStand Suitability:

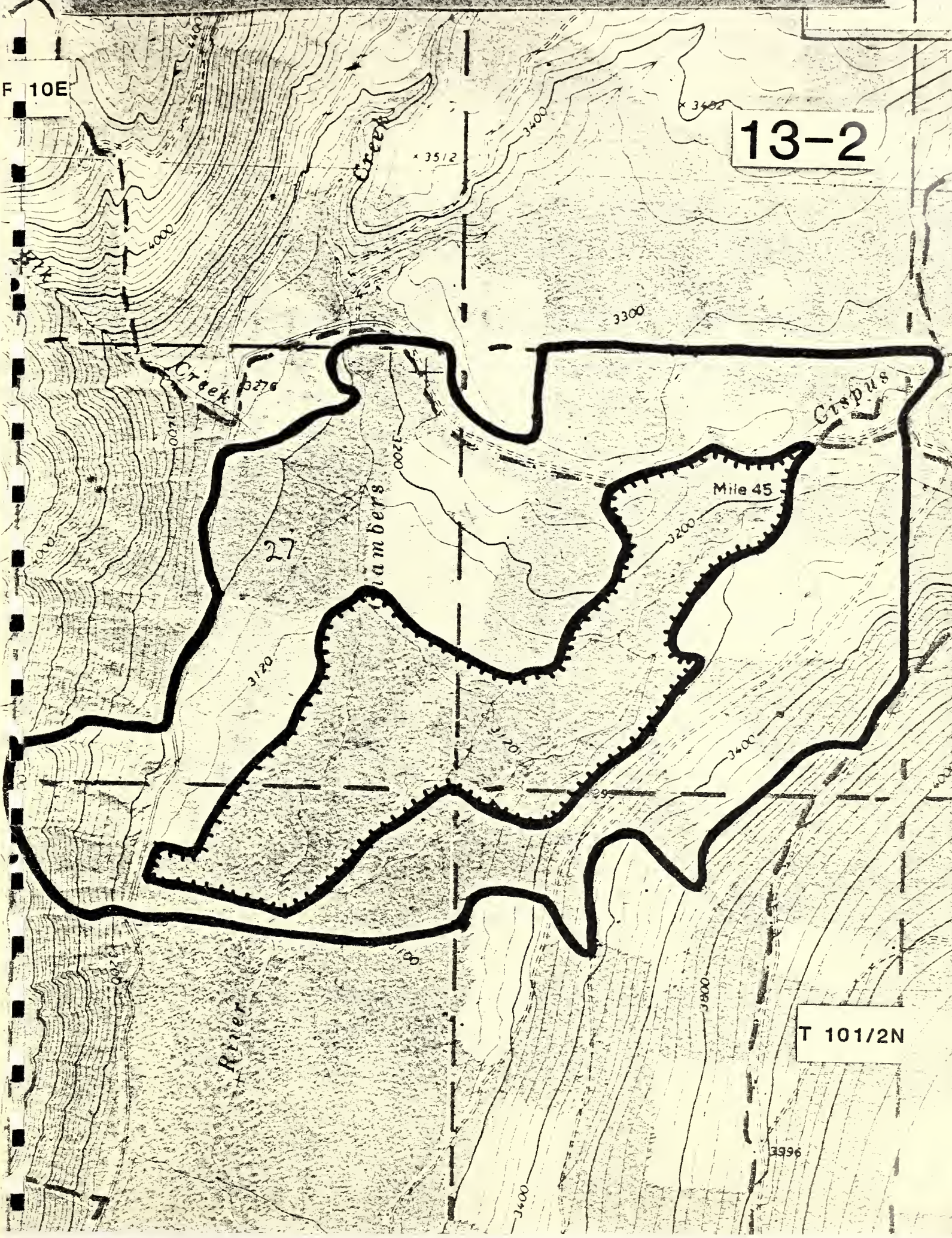
Adequate	Marginal	Sub-marginal
Habitat: <u>x</u>	Habitat: _____	Habitat: _____

Narrative:

This is a multi-layered stand with many large trees and snags. A swamp covers much of the core area. Big game use is heavy here so hunting pressure may be high. Fishing on the Cispus River may increase interference slightly. No owls have been sighted here.

F 10E

13-2



T 101/2N

SOMA Vegetative Data

(Summary of Plots)

Site Data:Soma and Core Area Nos: 13-3 TRI Comp: 4902District: PackwoodLegal Location: T10N, R10E, S3, 10, 11Descriptive Location of Plots: SE of road 1132Elevation: 3400'Slope: 16%Aspect: W-NWDistance to Water: 1/2 to 1 mi. NW to Cispus RiverStand Class: D-5Sample Size: 1 AcreOverstory Data (Dominant Species):Density: 31 trees/Acre Height: 160' DBH: 35"Species: DF, GF, WH, WRC Age: 537 % Crown Closure: 98No. of Live Culls: 0/AcreStanding Snags:Density: 11 snags/Acre Average Height: 60'/AcreAverage DBH: 35"/Acre

DBH	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19			2	
>20		4	4	1

No. of Downed Snags: 29/AcreStand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: X

Habitat: _____

Habitat: _____

Narrative:

All portions of this unit are exceptionally fine habitat. Trees and snags are large and plentiful. Recreational values are minimal. Clearcuts are present in all directions from core. No owls have been located here.

R 10E

13-3

10N





APPENDIX

Appendix 1.

SOMA Vegetative DataSite Data:

Date: _____

Soma and Core Area Nos: _____ TRI Comp: _____ TRI Cell: _____

District: _____ Legal Location: _____

Descriptive Location of Plot: _____

Elevation: _____ Slope: _____ Aspect: _____

Distance to Water: _____

Stand Class: _____ Plot No.: _____ (1/5 Acre Plot)

Overstory Data (Dominant Species):

Density: _____/Plot Height: _____ DBH: _____

Species: _____ Age: _____ % Crown Closure: _____

No. of Live Culls: _____/Plot

Standing Snags:

Density: _____/Plot Average Height: _____/Plot

Size	Height in Feet			
	<15	15 - 49	50 - 100	>100
6-10				
10-19				
>20				

No. of Downed Snags: _____/Plot

Stand Suitability:

Adequate

Marginal

Sub-marginal

Habitat: _____

Habitat: _____

Habitat: _____

Narrative:

Appendix 2.

SPECIES	SIGHT NO.	OBSERVER		OCCUPATION	DATE	SITE		SITE DESCRIPTION	DIST	TRI UNIT	DRAINAGE	LEGAL DESCRIPTION
						ELEV						
SPOTTED OWL	0001	GALE	ROBERT	WL	BIOLOGIST	06/78	01950	OLD GROWTH	8	B101	TROUT CREEK	SW S13-T 4N-R 6E
SEX:	M	SEX:		SEX:		SEX:		SEX:		SEX:		
AGE:	A	AGE:		AGE:		AGE:		AGE:		AGE:		
NO:	1	NO:	0	NO:	0	NO:	0	NO:	0	NO:	0	0

NARRATIVE:

SPOTTED OWL		0002	SFCCIK JOHN	F8 EMPL	07/78	2400 OLD GROWTH	B	B103 LAYOUT CREEK	NW S14-T 4N-R 6E
SEX:	M		SEX:		SEX:		SEX:		
AGE:	A		AGE:		AGE:		AGE:		
NO :	1		NO :	0	NO :	0	NO :	0	0

NARRATIVE:

SPOTTED OWL		0003	SEFOIK JOHN		FB EMPL	07/78	1575 OLD GROWTH	B	8103	TROUT CREEK	NE S20-T 4N-R 7E
SEX:	M	SEX:	F	SEX:		SEX:		SEX:		SEX:	
AGE:	A	AGE:	A	AGE:		AGE:		AGE:		AGE:	
NO :	1	NO :	1	NO :	0	NO :	0	NO :	0	NO :	0

NARRATIVE:

SPOTTED OWL												0004		SEFCIK JOHN FS EMPL		06/78		2500 LARGE SAUTIMBER		B		B501 CEDAR CREEK		NW S18-T 4N-R BE					
SEX:	M	AGE:	A	NO :	1	SEX:	M	AGE:	A	NO :	0	SEX:	M	AGE:	A	NO :	0	SEX:	M	AGE:	A	NO :	0	SEX:	M	AGE:	A	NO :	0

NARRATIVE:

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER FS	EMPL	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0005	SEFCIK JOHN	FS	EMPL	06/78	1700	MEDIUM SAWTIMBER	8	8703	SIOUXON CREEK	SE 506-T 5N-R 5E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: SEE SITE 47.											

SPOTTED OWL	0006	SEFCIK JOHN	FS	EMPL	06/78	01200	MEDIUM SAWTIMBER	8	8703	SIOUXON CREEK	NW 903-T 5N-R 5E
		SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: SEE SITE 48.											

SPOTTED OWL	0007	SEFCIK JOHN	FS	EMPL	07/78	01600	MEDIUM SAWTIMBER	1	1604	LEWIS RIVER	NW 502-T 7N-R 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE:											

SPOTTED OWL	0008	SEFCIK JOHN	FS	EMPL	07/78	02650	LARGE SAWTIMBER	1	1407	CLEARWATER CREEK	SE 510-T 8N-R 4E
		SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE:											

11/05/80

PAGE 6

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER FS EMPL	OCCUPATION	DATE	SITE		SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
						ELEV	TRI					
SPOTTED OWL	0009	SEFCIK JOHN	FS EMPL		07/78	2550	LARGE SAWTIMBER	1	1407	CLEARWATER CREEK	NW S11-T 8N-R 6E	
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	

NARRATIVE:

SPOTTED OWL	0010	SEFCIK JOHN	FS EMPL		07/78	01200	LARGE SAWTIMBER	1	1205	LEWIS RIVER	SE S19-T 7N-R 5E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

SPOTTED OWL	0011	SEFCIK JOHN	FS EMPL		07/78	04100	LARGE SAWTIMBER	3	3606	GOTCHEN CREEK	SW S08-T 7N-R11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SEE SITE 52 AND 69.

SPOTTED OWL	0012	SEFCIK JOHN	FS EMPL		07/78	03175	LARGE SAWTIMBER	3	3609	GOTCHEN CREEK	SW S17-T 7N-R11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SIGHT 11 & SIGHT 12 ARE POSITIVELY TWO DIFFERENT PAIRS. SEE SIGHT 53.

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	TRI	DRAINAGE	LEGAL DESCRIPTION
			NAME	FS									
SPOTTED OWL	0013	WOOD BRIAN	FS	EMPL		08/78	03175	LARGE SAWTIMBER	3	3608		GOOTCHEN CREEK	NW 524-T 7N-R10E
		SEX: M	SEX:	SEX:									
		AGE: A	AGE:	AGE:									
		NO: 1	NO: 0	NO: 0									

NARRATIVE: THIS OWL WAS A COOPERATOR FIND. SEE SITE 54 AND 107.

SPOTTED OWL	0014	PAZ SONNY	FS	EMPL		08/78	04075	OLD GROWTH	3	3501		TROUT LAKE CREEK	SE 534-T 8N-R 9E
		SEX: F	SEX:	SEX:									
		AGE: A	AGE:	AGE:									
		NO: 1	NO: 0	NO: 0									

NARRATIVE:

SPOTTED OWL	0015	TRAVER BOB	FS	EMPL		08/78	03550	OLD GROWTH	3	3104		BIG CREEK	NW 524-T 7N-R 7E
		SEX: M	SEX:	SEX:									
		AGE: A	AGE:	AGE:									
		NO: 1	NO: 0	NO: 0									

NARRATIVE: THIS OWL WAS A COOPERATOR FIND

SPOTTED OWL	0016	TRAVER BOB	FS	EMPL		08/78	04025	OLD GROWTH	3	3104		MEADOW CREEK	SW 524-T 7N-R 7E
		SEX: M	SEX:	SEX:									
		AGE: A	AGE:	AGE:									
		NO: 1	NO: 0	NO: 0									

NARRATIVE: THIS OWL WAS A COOPERATOR FIND, COULD POSSIBLY BE THE SAME OWL ON SIGHT 0015

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVATION DATE	SITE ELEV	SITE DESCRIPTION	DIST UNIT	TRI	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0019	SEFCIK JOHN	FS EMPL	08/78	03500 OLD GROWTH	3	3503	MOBQUITO CREEK	NE S18-T 7N-R 9E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

SPOTTED OWL	0020	SEFCIK JOHN	FS EMPL	08/78	4400 OLD GROWTH	3	3501	STEAMBOAT LAKE	NW S05-T 8N-R 9E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

SPOTTED OWL	0022	SEFCIK JOHN	FS EMPL	08/78	3500 OLD GROWTH	4	4304	CLEAR FORK COWLITZ RNE S08-T13N-R11E
		SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

SPOTTED OWL	0023	SEFCIK JOHN	FS EMPL	08/78	03000 OLD GROWTH	4	4304	CLEAR FORK COWLITZ RSW S31-T14N-R11E
		SEX: F	SEX: U	SEX: M	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE: Y	AGE: A	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 2	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE		SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
			NAME	NO			ELEV	NO					
SPOTTED OWL	0024	BEFCIK JOHN	FS	EMPL	08/78	04000	OLD GROWTH	4	4901	CHAMBERS CREEK	NE S15-111N-R10E		
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:			
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:			
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0			
NARRATIVE: SEE SITE NO 92.													
SPOTTED OWL	0025	PAZ SONNY	FS	EMPL	04/79	01960	OLD GROWTH	8	8101	TROUT CREEK	NW S14-4N-6E		
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:			
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:			
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0			
NARRATIVE: SEE SIGHT 0059 FOR ADDITIONAL BIRDS, ALSO SIGHT NO 87 AND 89													
SPOTTED OWL	0026	PAZ SONNY	FS	EMPL	04/79	01960	OLD GROWTH	8	8103	TROUT CREEK E. FORK	SE S01-5N-6E		
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:			
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:			
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0			
NARRATIVE:													
SPOTTED OWL	0027	PAZ SONNY	FS	EMPL	04/79	03080	LARGE SAWTIMBER	3	3402	LOBT CREEK	SE S33-6N-9E		
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:			
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:			
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0			
NARRATIVE: A PAIR WAS RESIGHTED IN SIGHT NO 62 AND 71													

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0030	PAZ SONNY	FB EMPL	04/79	02960	OLD GROWTH	5	0506	YELLOW JACKET CREEK SE	S31-10N-8E
		SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE:										
SPOTTED OWL	0031	MENGEL DENNISFB	EMPL	04/79	01279	LARGE SAWTIMBER	5	0405	WOODS CREEK	SW 508-11N-7E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE:										
SPOTTED OWL	0032	MENGEL DENNISFB	EMPL	05/79	01350	LARGE SAWTIMBER	1	1702	LEWIS RIVER	NW 530-7N-7E
		SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS OWL WAS FIRST SPOTTED BY KEN GREENWOOD. THIS BIRD WAS RESIGHTED IN SIGHT NO 72.										
SPOTTED OWL	0033	PAZ SONNY	FB EMPL	05/79	02650	OLD GROWTH	1	1406	MUDDY RIVER	SW 524-8N-6E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE:										

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0034	PAZ SONNY	FB EMPL	05/79	01275	OLD GROWTH	1	1403	MUDDY RIVER	NE S11- 7N- 6E
		SEX: M	SEX:	SEX:	SEX:	SEX:			SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:			AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0			NO: 0	

NARRATIVE:

SPOTTED OWL	0035	PAZ SONNY	FB EMPL	05/79	01400	OLD GROWTH	1	1701	PEPPER CREEK	SW S17- 7N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:			SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:			AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0			NO: 0	

NARRATIVE: IN PROPOSED TIMBER SALE. RESIGHTED IN SIGHT NO 73.

SPOTTED OWL	0036	PAZ SONNY	FB EMPL	05/79	01375	OLD GROWTH	1	1701	MUDDY RIVER	NW S18- 7N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:			SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:			AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0			NO: 0	

NARRATIVE: THIS BIRD WAS RESIGHTED IN SIGHT NO 63, 64, AND 88

SPOTTED OWL	0037	MENGEL DENNISFS	EMPL	05/79	01500	LARGE SAWTIMBER	1	1701	MUDDY RIVER	SW S07- 7N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:			SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:			AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0			NO: 0	

NARRATIVE: SEE SITE 108

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WILDLIFE SIGHTING DATA

SPECIES	BIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	TRI UNIT	DRAINAGE	LEGAL DESCRIPTION
			FB	EMPL								
SPOTTED OWL	0038	PAZ SONNY	FB	EMPL		05/79	01800	OLD GROWTH	1	1604	LEWIS RIVER	SE S10- 7N- 7E
	SEX: M	SEX:	SEX:	SEX:								
	AGE: A	AGE:	AGE:	AGE:								
	NO: 1	NO: 0	NO: 0	NO: 0								
NARRATIVE:												
SPOTTED OWL	0039	MENDEL DENNIS	FB	EMPL		05/79	02350	OLD GROWTH	1	1602	PEPPER CREEK	NE S08- 7N- 7E
	SEX: M	SEX:	SEX:	SEX:								
	AGE: A	AGE:	AGE:	AGE:								
	NO: 1	NO: 0	NO: 0	NO: 0								
NARRATIVE: SEE BIGHT NO 40.												
SPOTTED OWL	0041	PAZ SONNY	FB	EMPL		05/79	01900	OLD GROWTH	1	1402	MUDDY RIVER	NW S35- 8N- 6E
	SEX: M	SEX:	SEX:	SEX:								
	AGE: A	AGE:	AGE:	AGE:								
	NO: 1	NO: 0	NO: 0	NO: 0								
NARRATIVE:												
SPOTTED OWL	0042	VONDERWOUDE	AFS	EMPL		05/79	02000	OLD GROWTH	1	1602	CLEAR CREEK	SE S32-T 8N-R 7E
	SEX: M	SEX:	SEX:	SEX:								
	AGE: A	AGE:	AGE:	AGE:								
	NO: 1	NO: 0	NO: 0	NO: 0								
NARRATIVE: OWL FOUND IN SMALL PATCH OF OLD GROWTH IN MIDDLE OF SECOND GROWTH STAND. OLD GROWTH PROBABLY, 40 AC IN SIZE.												

WILDLIFE SIGHTING DATA

SIGHT NO.	SPECIES	OBSERVER	OCCUPATION	DATE	ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	TRI	LEGAL DESCRIPTION
0043	SPOTTED OWL	MENGEL	DENNIS	05/79	03300	OLD GROWTH	5	0302	NASH CREEK		NW 933- 11N- 7E
		SEX: M	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE: THIS BIRD WAS RESIGHTED IN SIGHT NO 65.											
0044	SPOTTED OWL	PAZ	SONNY	05/79	03050	OLD GROWTH	5	0302	MONROE CREEK		NW 827- 11N- 7E
		SEX: M	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE: THIS BIRD WAS RESIGHTED IN SIGHT NO 66, 75 AND 95.											
0045	SPOTTED OWL	PAZ	SONNY	05/79	01100	OLD GROWTH	5	0405	CISPUS RIVER		SE 817- 11N- 7E
		SEX: M	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE:											
0046	SPOTTED OWL	PAZ	SONNY	05/79	02800	OLD GROWTH	8	8203	TROUT CREEK		SE 835- 5N- 8E
		SEX: M	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A	SEX: A	AGE: A		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE:											

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SPECIES **SIGHT** **NO.**

OBSERVER
OCCUPATION

[illegible]

TRI
DIST UNIT

DRAINAGE

[illegible]

SW 505-- 5N-- 5E

SEX:
AGE:
NO:

ON SIOUXON CREEK TRAIL. SEE SITE 5.

NW 503- 5N- 5E

SEX:
AGE:
NO:

ON SIOUXON CREEK TRAIL. SEE SITE 6.

NW 508 - NC - 5E

SEX:
AGE:
NO :

THIS BIRD WAS RESIGHTED IN SIGHT NO 68 AND 98

NE S29-5N-5E

SEX:
AGE:
NO:

THIS BIRD WAS RESIGHTED IN SIGHT NO 67, 86 AND 106

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER OCCUPATION	SITE		SITE DESCRIPTION	TRI	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
				DATE	ELEV						
SPOTTED OWL	0051	MENGEL DENNIS	EMPL	05/79	03300	LARGE SAWTIMBER	3	3506		SMDKEY CREEK	NW 511- 6N- 9E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE:											
SPOTTED OWL	0052	MENGEL DENNIS	EMPL	05/79	04000	LARGE SAWTIMBER	3	3606		DOTCHEN CREEK	SW 508- 7N- 11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: THIS BIRD WAS RESIGHTED IN SIGHT NO 69. SEE SITE 11.											
SPOTTED OWL	0053	MENGEL DENNIS	EMPL	05/79	03700	OLD GROWTH	3	3606		DOTCHEN CREEK	SW 517- 7N- 11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: SEE SITE 12.											
SPOTTED OWL	0054	PAZ SONNY	FS EMPL	05/79	03600	LARGE SAWTIMBER	3	3608		DOTCHEN CREEK	NE 524- 7N- 11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: SEE SITE 13. SEE SITE 107 FOR ORIGINAL SIGHTING											

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0055	MENGEL	DENNISFS	EMPL	05/79	03200 LARGE SANTIMBER	3	3608	GOTCHEN CREEK	BE 524- 7N- 11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: THIS OWL RESPONDED ONCE AND THEN WAS SILENT, EVEN THOUGH WE COULD STILL SEE THE OWL.										

SPOTTED OWL	0057	PAZ	SONNY	FS	EMPL	06/79	02350 OLD GROWTH	1	1804	QUARTZ CREEK	NW 509- 8N- 8E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:		
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE: ON QUARTZ CREEK TRAIL.											

SPOTTED OWL	0058	MENGEL	DENNISFS	EMPL	06/79	02000 OLD GROWTH	1	1802	QUARTZ CREEK	NW 508- 8N- 8E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE:										

SPOTTED OWL	0059	PAZ	SONNY	FS	EMPL	06/79	02640 OLD GROWTH	8	8101	TRIBUT CREEK	NW 514- 4N- 6E
		SEX: U	SEX: F	SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:		
		AGE: Y	AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:		
		NO: 2	NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
NARRATIVE: ASSUME THESE BIRDS ARE IN SAME TERRITORY AS BIRD SIGHT NO 0025, 87 AND 89.											

SPECIES	BIGHT NO.	OBSERVER		OCCUPATION		DATE		SITE		SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
		PAZ	SONNY	FS	EMPL	SEX	AGE	SEX	AGE					
SPOTTED OWL	0060	PAZ	SONNY	FS	EMPL	06/79	03700	LARGE SAWTIMBER	3	3403	SPRING CREEK	NW 513- 6N- 9E		
		SEX: F	SEX: A	SEX: A	SEX: A	AGE: 1	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0
NARRATIVE: MARKING CREW REPORTED A PAIR OF ADULTS AND A PAIR OF FLEDGLINGS. WE FOUND ONLY 1 FEMALE. THIS BIRD WAS RESIGHTED (BIGHT NO 70) AGAIN THIS MONTH. SEE SIGHT 101.														
SPOTTED OWL	0062	PAZ	SONNY	FS	EMPL	06/79	03080	LARGE SAWTIMBER	3	3402	LOST CREEK	SE 533- 6N- 9E		
		SEX: M	SEX: F	SEX: A	SEX: A	AGE: 1	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0
NARRATIVE: WE ASSUME THIS IS THE SAME BIRD AS REPORTED IN SIGHT NO 27 THIS IS THE FIRST RESIGHTING. ALSO SIGHT NO. 71.														
SPOTTED OWL	0063	PAZ	SONNY	FS	EMPL	06/79	01375	OLD GROWTH	1	1701	MUDDY RIVER	NW 518- 7N- 7E		
		SEX: M	SEX: F	SEX: A	SEX: A	AGE: 1	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0
NARRATIVE: THIS IS THE SAME BIRD AS REPORTED IN SIGHT NO 36, 64, AND 68.														
SPOTTED OWL	0064	PAZ	SONNY	FS	EMPL	06/79	01375	OLD GROWTH	1	1701	MUDDY RIVER	NW 518- 7N- 7E		
		SEX: M	SEX: F	SEX: A	SEX: A	AGE: 1	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0	AGE: 0
NARRATIVE: ASSUME THIS IS THE SAME BIRD AS REPORTED IN SIGHT NO 36, 63, AND 68.														

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WILDLIFE SIGHTING DATA

SPECIES	BIGHT NO.	OBSERVER	OBSERVER	OCCUPATION	DATE	SITE		SITE DESCRIPTION	TRI	DIST UNIT	DRAINAGE	LEGAL DESCRIPTION
						ELEV	ELEV					
SPOTTED OWL	0065	MENGEL	DENNIS	FB	EMPL	06/79	03300	OLD GROWTH	5	0302	JEFFERSON CREEK	NW 933- 11N- 7E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: ASSUME THIS IS THE SAME BIRD AS REPORTED IN BIGHT NO 43. THIS IS THE FIRST RESIGHTING.												
SPOTTED OWL	0066	PAZ	SONNY	FB	EMPL	06/79	03050	OLD GROWTH	5	0302	GREENHORN CREEK	NW 927- 11N- 7E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: WE ASSUME THIS IS THE SAME BIRD AS REPORTED IN BIGHT NO 44. THIS IS THE FIRST RESIGHTING OF THIS BIRD. ALSO BIGHT NO 75 AND 95.												
SPOTTED OWL	0067	PAZ	SONNY	FB	EMPL	06/79	02000	OLD GROWTH	8	8706	ROCK CREEK	NE 929- 5N- 5E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: THIS BIRD WAS ASSUMED TO BE FIRST SIGHTED IN BIGHT NO 50. ALSO RESIGHTED IN BIGHT NO 86 AND 106. THIS IS THE FIRST RESIGHTING THIS BIRD.												
SPOTTED OWL	0068	PAZ	SONNY	FB	EMPL	06/79	01425	MEDIUM SAWTIMBER	8	8703	SIOUXON CREEK	NW 908- 5N- 5E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: THIS BIRD IS ASSUMED TO BE THE SAME BIRD AS REPORTED IN BIGHT NO 49. THIS IS THE FIRST RESIGHTING OF THIS BIRD. ALSO SIGHTING NO 98.												

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST UNIT	TRI	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0069	MENGEL DENNIS	FB	EMPL	06/79	04000	LARGE SAWTIMBER	3	3606	ODTCHEN CREEK	SW 508- 7N- 11E
		SEX: M	SEX:	AGE:	AGE:	SEX:	AGE:	SEX:	AGE:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS IS ASSUMED TO BE THE SAME BIRD AS REPORTED IN SIGHT NO 52 & 11. THIS IS THE SECOND RESIGHTING OF THIS BIRD.											
SPOTTED OWL	0070	PAZ SONNY	FB	EMPL	06/79	03700	LARGE SAWTIMBER	3	3403	SPRING CREEK	NW 913- 6N- 9E
		SEX: F	SEX:	AGE:	AGE:	SEX:	AGE:	SEX:	AGE:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS IS ASSUMED TO BE THE SAME OWL AS REPORTED IN SIGHT NO 60. THIS IS THE FIRST RESIGHTING OF THIS BIRD BY US ALTHOUGH IT WAS ORIGINALLY DISCOVERED WITH ITS MATE AND 2 FLEDGLINGS BY DISTRICT PERSONNEL. SIGHT NO 101.											
SPOTTED OWL	0071	PAZ SONNY	FB	EMPL	06/79	03080	LARGE SAWTIMBER	3	3402	LOST CREEK	SE 833- 6N- 9E
		SEX: M	SEX:	AGE:	AGE:	SEX:	AGE:	SEX:	AGE:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS BIRD WAS FIRST REPORTED IN SIGHT NO 27. THIS IS THE SECOND RESIGHTING OF THIS BIRD. THE OTHER RESIGHT IS NO 62.											
SPOTTED OWL	0072	MENGEL DENNIS	FB	EMPL	06/79	01350	LARGE SAWTIMBER	1	1702	LEWIS RIVER	NW 530- 7N- 7E
		SEX: F	SEX:	AGE:	AGE:	SEX:	AGE:	SEX:	AGE:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS IS ASSUMED TO BE THE BIRD FIRST SIGHTED IN SIGHT NO 32 THIS IS THE FIRST RESIGHTING OF THIS BIRD.											

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0073	MENGEL	DENNISFS	EMPL	07/79	01400 OLD GROWTH	1	1701	PEPPER CREEK	SW 517- 7N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: THIS BIRD WAS ASSUMED TO BE FIRST SIGHTED IN SIGHT NO 39. THIS IS THE FIRST RESIGHTING.										

SPOTTED OWL	0075	PAZ	SONNY	FB	EMPL	07/79	03050 OLD GROWTH	5	0302	GREENHORN CREEK	NW 927- 11N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: SAME OWL AS SIGHTINGS NO 44, 66 AND 95.											

SPOTTED OWL	0076	PAZ	SONNY	FB	EMPL	07/79	03800 OLD GROWTH	5	5101	DAVIS CREEK	NE 918- 13N- 7E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE:											

SPOTTED OWL	0077	MENGEL	DENNISFS	EMPL	07/79	02360 OLD GROWTH	5	205	GREEN RIVER	NE 503- 10N- 5E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: SEE SIGHT NO 73 ALSO THIS IS ON THE GREEN RIVER TRAIL										

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
			NO.	NAME								
SPOTTED OWL	0079	MENGE	DENNIS	F	EMPL	07/79	01900	OLD GROWTH	5	0807	LITTLE NISQUALLY RIVER	509-14N-4E
	SEX: M	BEX:	SEX:	BEX:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: IN MINERAL AREA ON PRIVATE PROPERTY.												

SPECIES	SIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
			NO.	NAME								
SPOTTED OWL	0080	MENGE	DENNIS	F	EMPL	07/79	03600	LARGE SAWTIMBER	4	4701	LILY LAKE	SE 506-13N-11E
	SEX: M	BEX:	SEX:	BEX:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: ON TRAIL 61, CLEAR FORK COWLITZ RIVER.												

SPECIES	SIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
			NO.	NAME								
SPOTTED OWL	0081	MENGE	DENNIS	F	EMPL	07/79	03350	LARGE SAWTIMBER	4	4702	CLEAR FORK COWLITZ RNE	520-13N-11E
	SEX: M	BEX:	SEX:	BEX:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: ON TRAIL 61.												

SPECIES	SIGHT NO.	OBSERVER	OBSERVER		OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
			NO.	NAME								
SPOTTED OWL	0083	MENGE	DENNIS	F	EMPL	07/79	02575	LARGE SAWTIMBER	3	3607	SALMON RIVER	NE 528-7N-10E
	SEX: F	BEX:	SEX:	BEX:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 2	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0
NARRATIVE: ON BUCK CREEK TRAIL												

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0084	PAZ SONNY	FS EMPL	08/79	Q3400	LARGE SAWN TIMBER	1	1901	BEAR CREEK	SW 503- 9N- 5E
	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: RIDGE TRAIL NO 207.

SPOTTED OWL	0085	GROSB MARK	AM NAT/ORN	08/79	Q4080	LARGE SAWN TIMBER	1	1004	SPIRIT LAKE	SW 526- 9N- 5E
	SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

SPOTTED OWL	0086	PAZ SONNY	FS EMPL	08/79	Q2000	OLD GROWTH	8	8706	ROCK CREEK	NE 529- 5N- 5E
	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: THIS IS THE SAME OWL FROM SIGHTING NO 50, 67 AND 106.

SPOTTED OWL	0087	PAZ SONNY	FS EMPL	05/79	Q1960	OLD GROWTH	8	8101	TROUT CREEK	NW 514- 4N- 6E
	SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SAME OWL AS SIGHT 25 AND 59 AND 89.

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER		OCCUPATION	DATE	SITE		DESCRIPTION	DIST	UNIT	DRAINAGE	TRI	LEGAL DESCRIPTION
		PAZ	SONNY			FB	EMPL						
SPOTTED OWL	0088	PAZ	SONNY	FB	EMPL	06/79	01375	OLD GROWTH	1	1701	MUDDY RIVER		NW S18- 7N- 7E
		SEX: M	SEX: A	SEX: A	SEX: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: THIS IS THE SAME OWL AS SIGHTS 36, 63, & 64.													
SPOTTED OWL	0089	PAZ	SONNY	FB	EMPL	08/79	02640	OLD GROWTH	8	8101	TROUT CREEK		NW S14- 4N- 6E
		SEX: U	SEX: Y	SEX: Y	SEX: Y	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	
		NO: 2	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: SAME IMMATURE OWLS AS REPORTED IN SIGHT 59 OFFSPRING OF OWLS REPORTED IN SIGHTS 25, 59, 87.													
SPOTTED OWL	0091	MENDEL	DENNIS	FB	EMPL	06/79	03500	LARGE SAWTIMBER	4	4401	SUMMIT CREEK		NE S17- 14N- 11E
		SEX: M	SEX: A	SEX: A	SEX: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE:													
SPOTTED OWL	0092	PAZ	SONNY	FB	EMPL	06/79	03930	OLD GROWTH	4	4901	CHAMBERS CREEK		SE S19- 11N- 10E
		SEX: M	SEX: F	SEX: A	SEX: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE: RESIGHTED IN SIGHT 93													

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WILDLIFE SIGHTING DATA

SIGHT NO.	SPECIES	OBSERVER	OBSERVATION DATE	SITE ELEV	SITE DESCRIPTION	TRI DIST UNIT	DRAINAGE	LEGAL DESCRIPTION
0093	SPOTTED OWL	PAZ BONNY	06/79	03950	LARGE BANTIMBER	4	4901 CHAMBERS CREEK	SE 815- 11N- 10E
SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SAME BIRDS AS SIGHT NO 92.

SIGHT NO.	SPECIES	OBSERVER	OBSERVATION DATE	SITE ELEV	SITE DESCRIPTION	TRI DIST UNIT	DRAINAGE	LEGAL DESCRIPTION
0094	SPOTTED OWL	PAZ BONNY	06/79	03920	OLD GROWTH	4	4401 SUMMIT CREEK	SW 809- 14N- 11E
SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: BODA SPRING TRAIL. RESIGHTED IN SIGHT NO 96.

SIGHT NO.	SPECIES	OBSERVER	OBSERVATION DATE	SITE ELEV	SITE DESCRIPTION	TRI DIST UNIT	DRAINAGE	LEGAL DESCRIPTION
0095	SPOTTED OWL	PAZ BONNY	06/79	03050	OLD GROWTH	5	0302 GREENHORN CREEK	NW 527- 11N- 7E
SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: THIS IS A RESIGHTING OF SIGHT NO 44, 66 AND 75.

SIGHT NO.	SPECIES	OBSERVER	OBSERVATION DATE	SITE ELEV	SITE DESCRIPTION	TRI DIST UNIT	DRAINAGE	LEGAL DESCRIPTION
0096	SPOTTED OWL	PAZ BONNY	07/79	03920	OLD GROWTH	4	4401 SUMMIT CREEK	SW 509- 14N- 11E
SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SAME BIRDS AS SIGHT 94.

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO	OBSERVER	OBSERVER OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	TRI	LEGAL DESCRIPTION
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SPOTTED OWL	0097	MENGEL DENNIS	FS EMPL	08/79	03600	LARGE SAWTIMBER	8	B205	PARADISE CREEK		NW 532- 6N- 7E
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SEX: M	AGE: A	NO: 1	SEX: F	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0
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NARRATIVE: SEE SIGHT 99 FOR ORIGINAL SIGHTING

SPOTTED OWL	0098	PAZ SONNY	FS EMPL	06/79	01425	MEDIUM SAWTIMBER	8	B703	BIDUXON CREEK		NW 508- 5N- 5E
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SEX: M	AGE: A	NO: 1	SEX: M	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0
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NARRATIVE: SAME OWL AS SIGHTING 49 AND 68.

SPOTTED OWL	0099	FIX DAVE	FS EMPL	08/79	03600	LARGE SAWTIMBER	8	B205	PARADISE CREEK		NW 532- 6N- 7E
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SEX: M	AGE: A	NO: 1	SEX: F	AGE: A	NO: 1	SEX: U	AGE: Y	NO: 2	SEX: M	AGE: A	NO: 0
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NARRATIVE: THIS OWL WAS REPORTED BY DAVE WHO IS AN AVID BIRD WATCHER. WE FOUND ONLY 2 ADULTS AT THIS LOCATION (SIGHT 97).

SPOTTED OWL	0100	SCHENK MARCE	FS EMPL	08/79	4080	LARGE SAWTIMBER	1	1306	WAKEPISH CREEK		SE 536- 9N- 7E
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SEX: M	AGE: A	NO: 1	SEX: M	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0	SEX: M	AGE: A	NO: 0
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NARRATIVE: WE COULD NOT RELOCATE THIS OWL

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER FS EMPL	OCCUPATION DATE	SITE			SITE DESCRIPTION	DIST UNIT	TRI	DRAINAGE	LEGAL DESCRIPTION
					SEX	AGE	ELEV					
SPOTTED OWL	0101	UNKNOWN	FS EMPL	05/79	03700	LARGE SAWTIMBER	3	3403	SPRING CREEK		NW 513- 6N- 9E	
		SEX: M	SEX: F	SEX: U	SEX: Y	SEX: A	SEX: X	SEX: X	SEX: X	SEX: X		
		AGE: A	AGE: A	AGE: Y	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A		
		NO: 1	NO: 1	NO: 2	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
<p>NARRATIVE: THIS WAS THE ORIGINAL SIGHTING. WE LOCATED THE ADULTS ONLY IN SIGHT NO 60 AND 70.</p>												
SPOTTED OWL	0102	TIMBER CREW	FS EMPL	08/79	02575	LARGE SAWTIMBER	3	3607	SALMON RIVER		NE 528- 7N- 10E	
		SEX: U	SEX: F	SEX: U	SEX: Y	SEX: A	SEX: X	SEX: X	SEX: X	SEX: X		
		AGE: Y	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A		
		NO: 2	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
<p>NARRATIVE: THESE BIRDS ARE ASSUMED TO BE THE SAME AS SITE 83.</p>												
SPOTTED OWL	0103	GALE ROBERT	WL BIOLOGIST	00/78	01080	OLD GROWTH	4	4303	CHANAPECOBUSH RIVER		NW 529- 14N- 10E	
		SEX: M	SEX: F	SEX: U	SEX: Y	SEX: A	SEX: X	SEX: X	SEX: X	SEX: X		
		AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A		
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
<p>NARRATIVE: OWL WAS LOCATED IN LA WIS WIS CAMPGROUND</p>												
SPOTTED OWL	0104	ROSS WYMAN	FS EMPL	00/78	03350	LARGE SAWTIMBER	4	4702	COWLITZ RIVER		NE 527- 13N- 11E	
		SEX: U	SEX: F	SEX: U	SEX: Y	SEX: A	SEX: X	SEX: X	SEX: X	SEX: X		
		AGE: Y	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A		
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0		
<p>NARRATIVE:</p>												

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NARRATIVE: OWL WAS RESIGHTED IN SITE 37

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	TRI	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0109	PAZ SONNY	FB	EMPL	06/79	03950	OLD GROWTH	4	4901	CHAMBERS CREEK	SE	S15-11N-10E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:
NARRATIVE: SEE SITE 24.												
SPOTTED OWL	0110	HELLER ELENOR	FB	EMPL	00/78	1680	LARGE SAWTIMBER	8	8204	TRAPPER CREEK	NE	S25-5N-6E
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:
NARRATIVE:												
SPOTTED OWL	0111	DON HARM	FB	EMPL	09/79	03000	OLD GROWTH	1	1202	COLD SPRING CR	S23-17N-R4E	
		SEX: M	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:
NARRATIVE: GOAT MARSH AREA												
SPOTTED OWL	0116	A VANDERHOUE	FB	EMPL	4/79	02000	OLD GROWTH	1	1603	CLEAR CR	S5 S -17N - R7E	
		SEX: U	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:	AGE:	SEX:	SEX:	AGE:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:	NO:
NARRATIVE:												

11/05/80

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WILDLIFE SIGHTING DATA

LEGAL
DESCRIPTION

DRAINAGE

TRI
DIST UNITSITE
DESCRIPTIONBITE
ELEVOBSERVER
OCCUPATION DATE

OBSERVER

BIGHT
NO

SPECIES

S3 S5 -T9N - R8E

1 1804 QUARTZ CR

51/79 03000 OLD GROWTH

GEORGE RICE FB EMPL

SPOTTED OWL

SEX: U SEX: SEX: SEX: SEX: SEX:
 AGE: A AGE: AGE: AGE: AGE: AGE:
 NO: 1 NO: 0 NO: 0 NO: 0 NO: 0 NO: 0

NARRATIVE:

SE S33-T02N-R09E

3 3402 LOST CREEK

06/80 03080 LARGE SAWTIMBER

PAZ BONNY FB EMPL

SPOTTED OWL

SEX: U SEX: SEX: SEX: SEX: SEX:
 AGE: A AGE: AGE: AGE: AGE: AGE:
 NO: 1 NO: 0 NO: 0 NO: 0 NO: 0 NO: 0

NARRATIVE: THIS OWL WAS LOCATED LAST YEAR DURING THE SURVEY. SEE BIGHT 27.

SE S21-T07N-R10E

3 3607 SALMON RIVER

06/80 02575 LARGE SAWTIMBER

PAZ BONNY FB EMPL

SPOTTED OWL

SEX: M SEX: F SEX: SEX: SEX: SEX:
 AGE: A AGE: A AGE: AGE: AGE: AGE:
 NO: 1 NO: 1 NO: 0 NO: 0 NO: 0 NO: 0

NARRATIVE: PREVIOUSLY SIGHTED IN 1979 SURVEY. SEE BIGHT NO. 83.

NW S14-T04N-R06E

8 8101 TROUT CREEK

07/80 01960 OLD GROWTH

MENDEL DENNIS FB EMPL

SPOTTED OWL

SEX: U SEX: SEX: SEX: SEX: SEX:
 AGE: A AGE: AGE: AGE: AGE: AGE:
 NO: 1 NO: 0 NO: 0 NO: 0 NO: 0 NO: 0

NARRATIVE: PREVIOUSLY SIGHTED IN SIGHT 25.

11/03/80

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WILDLIFE SIGHTING DATA

SPECIES	BIGHT NO.	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0122	HAUPT - LARWIFB	EMPL	03/80	02200	OLD GROWTH	1	1701	PEPPER CREEK	SW S07-T07N-R07E
		SEX: U	SEX:	SEX:	SEX:	SEX:				
		AGE: A	AGE:	AGE:	AGE:	AGE:				
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	0	0	0	0
NARRATIVE: HEARD ADULT OWL CALLING FROM OLD GROWTH STAND AT 1000, 3-7-80.										
SPOTTED OWL	0123	DIBERT JOHN	FS	EMPL	08/79	02800	OLD GROWTH	1	1303	BEAN CREEK
		SEX: U	SEX:	SEX:	SEX:	SEX:				
		AGE: U	AGE:	AGE:	AGE:	AGE:				
		NO: 2	NO: 0	NO: 0	NO: 0	NO: 0	0	0	0	0
NARRATIVE: PROBABLY A PAIR										
SPOTTED OWL	0129	MENDEL DENNIS	OWL	BIOLOGIST	08/80	01700	OLD GROWTH	8	8705	ROCK CREEK
		SEX: U	SEX:	SEX:	SEX:	SEX:				
		AGE: A	AGE:	AGE:	AGE:	AGE:				
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	0	0	0	0
NARRATIVE: THIS OWL IS LOCATED IN CORE AREA S-3-2. CALLED DURING DAY.										
SPOTTED OWL	0133	PAZ SONNY	FS	EMPL	08/80	02575	LARGE SAWTIMBER	3	3607	BUCK CREEK
		SEX: M	SEX: F	SEX:	SEX:	SEX:				
		AGE: A	AGE: A	AGE:	AGE:	AGE:				
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	0	0	0	0
NARRATIVE: SAME PAIR AS SITE B3.										

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WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER		OCCUPATION	DATE	SITE		SITE DESCRIPTION	DIST	UNIT	DRAINAGE	TRI	LEGAL DESCRIPTION
		OBSERVER	OCCUPATION			ELEV	DESCRIPTION						
SPOTTED OWL	0134	PAZ	SONNY	FS	EMPL	08/80	04000	LARGE SAWTIMBER	3	3606	GOTCHEN CREEK		SW 508-107N-R11E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	
NARRATIVE:													SAME OWL AS SITE 52.

SPOTTED OWL	0135	STEVE MOONEY FB EMPL	09/80	03200	OLD GROWTH	3	3205	LEWIS RIVER	NW 825-T09N-R09E
SEX:	U	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	
AGE:	A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	
NO :	1	NO :	0	NO :	0	NO :	0	NO :	0
NARRATIVE:									
SOME OLD GROWTH DF, WH MIXED STAND OF 2ND GROWTH PSF, DF.									
BIRD WAS SEEN ABOUT 75' AWAY FROM BOUNDARY OF COSSHAWK NEST									
AREA.									

SPOTTED OWL			0137			DALE BLACKBURWL BIOLOGST			08/78 03900 OLD GROWTH			1			1201			YOUTLE RIVER			NW 906-TOBN-ROSE		
SEX:	U		SEX:			SEX:			SEX:			SEX:			SEX:			SEX:					
AGE:	A		AGE:			AGE:			AGE:			AGE:			AGE:			AGE:					
NO :	1		NO :	0		NO :	0		NO :	0		NO :	0		NO :	0		NO :	0				
NARRATIVE: ON TRAIL 238																							

SPOTTED OWL	0138	DALE BLACKBURN	BIOLOGIST	07778	03600	OLD GROWTH	B	B203	TRAPPER CREEK	SW 511-T05N-R06E
SEX:	M	SEX:	F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
AGE:	A	AGE:	A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
NO :	1	NO :	1	NO :	0	NO :	0	NO :	0	NO :
NARRATIVE: BELIEVED TO BE A PAIR DEFENDING NEST SITE. MALE BIRD SWOOPED OVER OBSERVERS HEAD										

11/05/80

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
SPOTTED OWL	0139	DALE BLACKBURN	BIOLOGIST	07/78	03550	OLD GROWTH	8	8203	TRAPPER CREEK	NW 515-T05N-R06E
		SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: PROBABLY SAME OWLS AS SITE 138.

SPOTTED OWL	0140	DALE BLACKBURN	BIOLOGIST	08/78	02600	OLD GROWTH	8	8705	SIOUXON CREEK	NW 509-T05N-R06E
		SEX: U	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: ON TRAIL 130 1/2 MI. FROM ROAD N63.

SPOTTED OWL	0144	DON HARM	FB EMPL	08/80	1500	LARGE SAWTIMBER	5	5104	EAST FORK TILTON RIVN	S20-T13N-R06E
		SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:
		NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

WILDLIFE SIGHTING DATA

SPECIES	SIGHT NO.	OBSERVER	OCCUPATION	DATE	SITE ELEV	SITE DESCRIPTION	DIST	UNIT	DRAINAGE	LEGAL DESCRIPTION
BARRED OWL	0017	SEFCIK JOHN	FS EMPL	08/78	02300	OLD GROWTH	3	3207	LEWIS RIVER	SE S07-T BN-R 9E

SEX: M	SEX: F	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1
AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A
NO: 1	NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

BARRED OWL	0018	SEFCIK JOHN	FS EMPL	08/78	2400	OLD GROWTH	3	3201	STEAMBOAT CREEK	NW S13-T BN-R 8E
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SEX: M	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1
AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A
NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE:

BARRED OWL	0021	SEFCIK JOHN	FS EMPL	08/78	1900	OLD GROWTH	5	5405	CISPUS RIVER	SE S09-T11N-R 7E
------------	------	-------------	---------	-------	------	------------	---	------	--------------	------------------

SEX: M	SEX: A	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1
AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A
NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: SEE SITE NO. 74 AND 28.

BARRED OWL	0028	PAZ SONNY	FS EMPL	04/79	01900	MEDIUM SAWTIMBER	5	0405	CISPUS RIVER	SW S09-11N-7E
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SEX: M	SEX: A	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1	SEX: 1
AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A	AGE: A
NO: 1	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0	NO: 0

NARRATIVE: ON KRAUS RIDGE TRAIL - THIS BIRD WAS RESIGHTED IN
SIGHT NO 74 SEE SITE 21.

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SPECIES	SIGHT NO.	OBSERVER		OCCUPATION	DATE		SITE		SITE DESCRIPTION	DIST	UNIT	TRI	LEGAL DESCRIPTION
		PAZ	SONNY		FS	EMPL	04/79	02000					
BARRED OWL	0029	PAZ	SONNY	FS	EMPL	04/79	02000	OLD	GROWTH	5	0405	SQUIRE CREEK	SW 502- 11N- 7E
		SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:		SEX:	SEX:	
		AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:		AGE:	AGE:	
		NO : 1	NO : 1	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	0	NO : 0	NO : 0	1
NARRATIVE: ON KRAUS RIDGE TRAIL.													
BARRED OWL	0040	PAZ	SONNY	FS	EMPL	05/79	02350	OLD	GROWTH	1	1602	PEPPER CREEK	NE 508- 7N- 7E
		SEX: M	SEX: F	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:		SEX:	SEX:	
		AGE: A	AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:		AGE:	AGE:	
		NO : 1	NO : 1	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	0	NO : 0	NO : 0	0
NARRATIVE: THESE BARRED OWLS WERE AT SAME LOCATION AS SPOTTED OWL SIGHT NO 0039. THE SPOTTED OWL LEFT WHEN THE BARRED OWLS ARRIVED.													
BARRED OWL	0056	PAZ	SONNY	FS	EMPL	06/79	03300	OLD	GROWTH	3	3506	BROKEY CREEK	NW 511- 6N- 9E
		SEX: M	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:		SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:		AGE:	AGE:	
		NO : 1	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	0	NO : 0	NO : 0	0
NARRATIVE: THIS BARRED OWL WAS LOCATED AT POSSIBLE SPOTTED OWL NEST SITE IN HORSE BAILE.													
BARRED OWL	0061	MENGE	DENNIS	FS	EMPL	06/79	01750	OLD	GROWTH	1	1701	PEPPER CREEK	NW 517- 7N- 7E
		SEX: U	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:	SEX:		SEX:	SEX:	
		AGE: A	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:	AGE:		AGE:	AGE:	
		NO : 1	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	NO : 0	0	NO : 0	NO : 0	0
NARRATIVE:													

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WILDLIFE SIGHTING DATA

NARRATIVE:

GIFFORD PINCHOT NATIONAL FOREST
500 West 12th Street
Vancouver, Washington 98660

2630
3 December 1979

FOREST INTERIM DIRECTIVE NO. 1

Duration - Until Forest Plan is Final.

Chapter: 2630 - Management of Wildlife and Fish Habitat

Posting Notice: 2633 Special Area Management

2633 Policy.

Spotted Owl Habitat. The following direction for Spotted Owl Management Areas (SOMA's) was determined at the October 23-24 Management Team meeting.

Goal. Maintain viable habitat for the spotted owl on the Gifford Pinchot National Forest.

Objective. Maintain habitat for at least three pair of spotted owls within each of the 13 SOMA's identified in Figure 1.

Each spotted owl pair will require at least:

1. 300 acres of contiguous old-growth habitat (at least 200 year old stands).
2. An additional 900 acres of managed habitat, of which at least one-half must consist of timber stands greater than 30 years old.

The general description of the 13 SOMA's is:

1. SOMA #1. Near Wind River Experimental Forest (T4N, R8E, S7-11, 14-23, 26-30)
2. SOMA #2. Near Wind River NRA (T5N, R6E, S25, 26, 35, 36; T5N, R7E, S30, 31; T4N, R6E, S1, 2, 10-15, 22-27, 34-36; T4N, R7E, S6, 7, 14-23, 26-35)
3. SOMA #3. Siouxon (T5N, R5E, S2-11, 14-23, 26-35)
4. SOMA #4. Ice Cave Area (T6N, R9E, S1-3, 10-15, 22-27, 33-36, T5N, R9E, S1-4)

5. SOMA #5. East White Salmon (T7N, R10E, S13, 14, 21-28, 33-36,, T7N, R11E, S4, 5, 8, 9, 16-21, 28-33)
6. SOMA #6. (Cedar Flats Area (T8N, R6E, S1-3, 10-15, 22-27, 34-36, T7N, R6E, S1-3, 10-15, T7N, R7E 1-33, T7N, R7 1/2E, S1, 12, 13, 24, 25)
7. SOMA #7. Upper Quartz Creek (T9N, R8E, S27-29, 32-34, T8N, R8E, S3-10, 15-18)
8. SOMA #8. Spirit Lake Area (T11N, R5E, 31-36, T10N, R5E, S1-36, T9N, R5E, S1-30)
9. SOMA #9. Lower Cispus River (T11N, R7E, S1-36, T10N, R7E, S1-6)
10. SOMA #10. Purcell Mountain Area (T13N, R7E, S1, 2, , 11-14, 23-26, 35, 36, TBN, R8E, S2-11, 14-23, 26-35)
11. SOMA #11. La Wis Wis - Cougar Area (T15N, R10E, S35, 36, T15N, R11E, S28-33, T14N, R9E, S12, 13, 24, 25, T14N, R10E, S1-3, 7-21, 28-30, T14N, R11E, S4-9, 16-18)
12. SOMA #12. North Goat Rocks (T14N, R10E, S34-36, T14N, R11E, S31-33, T13N, R10E, S1-3, 10-15, 20-29, 32-34, T13N, R11E, S4-9, 16-21, 28-30, T12N, R10E, S3-5, 8-10)
13. SOMA #13. Hugo Lake Area (T12N, R10E, S33-36, T11N, R10E, S1-4, 9-16, 21-28, 33-36, T10N, R10E, S1-4, 9-16)

Objective. All timber sales within any SOMA will discuss the effects on spotted owls in the EAR and will be coordinated to ensure that habitat for at least three pair of spotted owls (between one and three miles apart) will be maintained. Each District will coordinate proposed timber harvesting and road building with the Forest Wildlife Staff.

Protection of spotted owl habitat outside of SOMA's will consist of maintaining 40 acres of habitat directly around a nest site.

Objective. The Gifford Pinchot National Forest will prepare a Spotted Owl Management Plan by September of 1980. This plan will be coordinated with each District Ranger and the Forest Supervisor. The Spotted Owl Management Plan

will be in effect until the Forest Plan is finalized. At the time the Forest Plan is developed, spotted owl habitat will be evaluated and incorporated into land allocations and management direction.

The Spotted Owl Management Plan will include the following information:

1. Definitive SOMA boundaries.
2. The location of each 1,200 acre spotted owl pair management unit.
3. The location of old growth habitat to be maintained for each pair.
4. Management guidance for each SOMA and spotted owl pair management unit.

